CUADERNILLO DE PREGUNTAS

Saber 3°, 5° y 9° 2015

Cuadernillo de prueba

EJEMPLO DE PREGUNTAS
Saber 3° Matetamáticas

MINEDUCACIÓN

icfes mejor saber

TODOS POR UN NUEVO PAÍS
PAZ EQUIDAD EDUCACIÓN

Presidente de la República
Juan Manuel Santos Calderón

Ministra de Educación Nacional
Gina María Parody d'Echeona

Viceministro de Educación Preescolar, Básica y Media
Luis Enrique García De Brigard

Directora General
Ximena Dueñas Herrera

Secretaria General
María Sofía Arango Arango

Director de Evaluación
Andrés Gutiérrez

Director de Producción y Operaciones
Francia del Pilar Jiménez

Directora de Tecnología
Ingrid Picón Carrascal

Jefe Oficina Asesora de Comunicaciones y Mercadeo
Jimmy Alexander Lugo Guerrero

Jefe Oficina Gestión de Proyectos de Investigación
Luis Eduardo Jaramillo

Subdirectora de Producción de Instrumentos
Martha Ligia Cuevas Mendoza

Subdirector de Diseño de Instrumentos
Diego Fernando Lemus Polanía

Subdirectora de Análisis y Divulgación
Silvana Godoy Mateus

Adaptación y elaboración del documento
Martha Jeanet Castillo Ballén

Diseño y diagramación
Gustavo Andrés Álvarez Mejía
Cecilia Martínez Rodríguez

ISBN de la versión digital: En trámite

Bogotá D.C., Mayo de 2016

MINEDUCACIÓN

icfes mejor saber

TODOS POR UN NUEVO PAÍS
PAZ EQUIDAD EDUCACIÓN

ADVERTENCIA

Con el fin de evitar la sobrecarga gráfica que supondría utilizar en español "o/a" para denotar uno u otro género, el ICFES opta por emplear el masculino genérico en el que todas las menciones de este se refieren siempre a hombres y mujeres.

Todo el contenido es propiedad exclusiva y reservada del ICFES y es el resultado de investigaciones y obras protegidas por la legislación nacional e internacional. No se autoriza su reproducción, utilización ni explotación a ningún tercero. Solo se autoriza su uso para fines exclusivamente académicos. Esta información no podrá ser alterada, modificada o enmendada.

ICFES. 2016. Todos los derechos de autor reservados ©.

TÉRMINOS Y CONDICIONES DE USO PARA PUBLICACIONES Y OBRAS DE PROPIEDAD DEL ICFES

El Instituto Colombiano para la Evaluación de la Educación (ICFES) pone a la disposición de la comunidad educativa y del público en general, **DE FORMA GRATUITA Y LIBRE DE CUALQUIER CARGO**, un conjunto publicaciones a través de su portal www.icfes.gov.co. Dichos materiales y documentos están normados por la presente política y están protegidos por derechos de propiedad intelectual y derechos de autor a favor del ICFES. Si tiene conocimiento de alguna utilización contraria a lo establecido en estas condiciones de uso, por favor infórmenos al correo prensaicfes@icfes.gov.co.

Queda prohibido el uso o publicación total o parcial de este material con fines de lucro. **Únicamente está autorizado su uso para fines académicos e investigativos**. Ninguna persona, natural o jurídica, nacional o internacional, podrá vender, distribuir, alquilar, reproducir, transformar ([1]), promocionar o realizar acción alguna de la cual se lucre directa o indirectamente con este material. Esta publicación cuenta con el registro ISBN (International Standard Book Number, o Número Normalizado Internacional para Libros) que facilita la identificación no sólo de cada título, sino de la autoría, la edición, el editor y el país en donde se edita.

En todo caso, cuando se haga uso parcial o total de los contenidos de esta publicación del ICFES, el usuario deberá consignar o hacer referencia a los créditos institucionales del ICFES respetando los derechos de cita; es decir, se podrán utilizar con los fines aquí previstos transcribiendo los pasajes necesarios, citando siempre la fuente de autor) lo anterior siempre que estos no sean tantos y seguidos que razonadamente puedan considerarse como una reproducción simulada y sustancial, que redunde en perjuicio del ICFES.

Asimismo, los logotipos institucionales son marcas registradas y de propiedad exclusiva del Instituto Colombiano para la Evaluación de la Educación (ICFES). Por tanto, los terceros no podrán usar las marcas de propiedad del ICFES con signos idénticos o similares respecto de cualesquiera productos o servicios prestados por esta entidad, cuando su uso pueda causar confusión. En todo caso queda prohibido su uso sin previa autorización expresa del ICFES. La infracción de estos derechos se perseguirá civil y, en su caso, penalmente, de acuerdo con las leyes nacionales y tratados internacionales aplicables.

El ICFES realizará cambios o revisiones periódicas a los presentes términos de uso, y los actualizará en esta publicación.

El ICFES adelantará las acciones legales pertinentes por cualquier violación a estas políticas y condiciones de uso.

* La transformación es la modificación de la obra a través de la creación de adaptaciones, traducciones, compilaciones, actualizaciones, revisiones, y, en general, cualquier modificación que de la obra se pueda realizar, generando que la nueva obra resultante se constituya en una obra derivada protegida por el derecho de autor, con la única diferencia respecto de las obras originales que aquellas requieren para su realización de la autorización expresa del autor o propietario para adaptar, traducir, compilar, etcétera. En este caso, el ICFES prohíbe la transformación de esta publicación.

SABER 3

SABER 3 - PRUEBA DE MATEMÁTICAS

- **Pregunta 1.**

En una escuela estudian 334 niños y 386 niñas.

¿Cuántos estudiantes hay en total en la escuela?

A. 610 estudiantes.
B. 620 estudiantes.
C. 720 estudiantes.
D. 810 estudiantes.

- **Estructura**

Competencia	Resolución
Componente	Numérico - Variacional
Afirmación	Resolver problemas aditivos rutinarios de composición y transformación e interpretar condiciones necesarias para su solución.
Nivel de desempeño	Mínimo
Respuesta Correcta	C

• Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	9.7%	11.6%	62.9%	11.6%	4.3%	673
Antioquia	8.5%	8.6%	72.0%	8.4%	2.6%	20215
Apartadó	9.8%	11.3%	65.9%	10.7%	2.3%	1148
Arauca	5.6%	6.1%	81.7%	5.7%	0.8%	2390
Armenia	7.5%	8.4%	74.9%	7.8%	1.4%	1622
Atlántico	9.6%	8.7%	67.2%	10.7%	3.8%	4254
Barrancabermeja	8.3%	7.8%	76.4%	5.9%	1.6%	1948
Barranquilla	7.2%	7.8%	77.0%	6.3%	1.8%	8003
Bello	9.9%	10.9%	69.5%	8.0%	1.7%	3172
Bogotá, D.C.	6.8%	7.4%	79.0%	5.6%	1.2%	45988
Bolívar	10.8%	9.9%	64.7%	11.6%	2.9%	8608
Boyacá	6.3%	6.5%	79.8%	6.5%	0.9%	6339
Bucaramanga	5.4%	5.8%	82.5%	5.3%	1.0%	3695
Buenaventura	8.3%	7.2%	75.1%	7.0%	2.4%	3420
Buga	9.3%	10.9%	70.3%	7.4%	2.0%	687
Caldas	6.6%	8.1%	77.6%	6.6%	1.1%	4031
Cali	7.2%	7.8%	76.7%	6.4%	1.8%	13697
Caquetá	6.9%	6.3%	76.4%	7.7%	2.7%	2278
Cartagena	8.1%	8.1%	72.8%	8.4%	2.6%	7633
Cartago	7.8%	8.5%	75.8%	6.6%	1.3%	836
Casanare	6.9%	7.0%	78.5%	7.0%	0.6%	2496
Cauca	6.7%	6.5%	77.4%	6.9%	2.6%	9584
Cesar	8.5%	8.7%	71.7%	9.2%	1.8%	6406
Chocó	8.3%	8.0%	73.1%	7.9%	2.7%	3281
Chía	8.6%	6.1%	78.9%	5.6%	0.8%	1177
Ciénaga	11.0%	9.2%	63.7%	11.8%	4.3%	1036
Cundinamarca	6.3%	6.6%	81.6%	4.7%	0.8%	11702
Córdoba	10.1%	9.0%	69.0%	9.6%	2.3%	10335
Cúcuta	6.4%	6.5%	81.1%	5.2%	0.8%	5930
Dosquebradas	7.8%	10.4%	75.5%	5.3%	1.1%	1309
Duitama	5.3%	5.3%	85.7%	3.5%	0.2%	909
Envigado	7.3%	9.0%	76.6%	6.2%	1.0%	923
Facatativá	6.0%	6.6%	83.9%	2.9%	0.5%	964
Florencia	8.5%	8.4%	75.0%	7.0%	1.1%	1518
Floridablanca	4.5%	6.0%	84.5%	4.2%	0.8%	1777
Fusagasugá	6.2%	6.3%	80.0%	6.2%	1.4%	764
Girardot	8.1%	8.5%	73.0%	9.3%	1.1%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	6.4%	7.3%	79.8%	5.6%	0.9%	1124
Guainía	12.6%	7.9%	62.9%	14.3%	2.2%	453
Guaviare	7.6%	7.0%	74.5%	8.3%	2.6%	699
Huila	7.0%	7.2%	77.1%	7.3%	1.4%	5892
Ibagué	6.2%	6.7%	80.3%	5.5%	1.4%	3696
Ipiales	4.1%	6.0%	85.0%	4.2%	0.6%	945
Itagüí	9.4%	10.8%	71.1%	8.0%	0.8%	1292
Jamundí	9.7%	9.2%	70.2%	8.0%	3.0%	775
La Guajira	8.4%	7.2%	74.0%	7.6%	2.7%	3450
Lorica	11.3%	8.9%	67.4%	9.3%	3.0%	1031
Magangué	9.8%	9.3%	65.1%	12.8%	2.9%	1156
Magdalena	9.3%	8.3%	68.4%	10.6%	3.5%	6947
Maicao	10.3%	10.9%	67.4%	9.2%	2.2%	1721
Malambo	7.3%	7.0%	77.1%	7.5%	1.1%	818
Manizales	5.5%	6.9%	81.1%	5.6%	0.9%	2010
Medellín	9.0%	9.5%	71.2%	8.6%	1.8%	13570
Meta	6.4%	6.6%	79.7%	6.3%	1.0%	4476
Montería	9.7%	8.9%	70.1%	9.2%	2.1%	3934
Mosquera	6.7%	10.0%	76.5%	6.0%	0.8%	992
Nariño	5.4%	5.9%	80.1%	5.7%	2.9%	6221
Neiva	5.9%	6.8%	81.1%	5.3%	0.9%	2784
Norte de Santander	6.4%	5.6%	81.9%	5.2%	1.0%	6459
Palmira	7.1%	7.4%	79.0%	5.0%	1.6%	2054
Pasto	5.5%	6.6%	82.9%	4.2%	0.8%	2532
Pereira	6.8%	7.8%	78.3%	5.4%	1.7%	2984
Piedecuesta	5.3%	5.5%	83.6%	4.3%	1.3%	997
Pitalito	5.9%	5.9%	80.0%	6.2%	2.0%	1195
Popayán	4.8%	6.2%	82.6%	5.0%	1.4%	2036
Putumayo	6.8%	6.3%	79.2%	6.3%	1.5%	3085
Quibdó	6.7%	6.7%	77.0%	6.6%	3.0%	1031
Quindío	7.9%	8.9%	73.7%	7.2%	2.4%	1538
Riohacha	9.6%	9.4%	70.4%	7.9%	2.8%	2216
Rionegro	6.4%	8.9%	77.8%	6.1%	0.8%	765
Risaralda	7.7%	6.4%	77.5%	5.7%	2.8%	2035
Sabaneta	5.8%	6.9%	79.2%	3.8%	4.3%	394
Sahagún	9.9%	8.9%	71.4%	8.7%	1.1%	873
San Andrés	10.4%	9.2%	69.4%	9.7%	1.2%	402
Santa Marta	8.7%	8.6%	71.5%	9.1%	2.1%	4200
Santander	7.3%	6.6%	78.6%	6.3%	1.2%	6185

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	8.9%	8.5%	72.1%	8.9%	1.6%	2353
Soacha	6.8%	8.1%	78.1%	6.2%	0.8%	3935
Sogamoso	4.6%	5.4%	85.6%	4.0%	0.5%	1046
Soledad	6.9%	8.6%	75.9%	6.8%	1.8%	3730
Sucre	10.3%	8.9%	65.9%	12.2%	2.7%	5961
Tolima	8.8%	8.0%	73.4%	8.1%	1.7%	6918
Tuluá	6.8%	8.7%	76.5%	6.8%	1.1%	1463
Tumaco	10.4%	6.9%	64.2%	13.8%	4.7%	2018
Tunja	6.1%	6.2%	82.4%	4.5%	0.8%	1403
Turbo	10.8%	8.7%	66.9%	11.3%	2.4%	1937
Uribia	13.5%	12.8%	55.9%	12.9%	5.0%	1575
Valle del Cauca	7.6%	8.5%	75.1%	6.9%	1.9%	5681
Valledupar	8.5%	7.6%	75.0%	6.9%	2.0%	3914
Vaupés	12.5%	9.9%	56.7%	19.3%	1.7%	353
Vichada	10.7%	9.4%	64.0%	13.3%	2.7%	777
Villavicencio	5.3%	6.0%	83.6%	4.4%	0.7%	3999
Yopal	7.8%	8.5%	76.2%	6.5%	0.9%	1531
Yumbo	8.3%	9.1%	75.1%	6.0%	1.6%	870
Zipaquirá	4.3%	5.6%	84.2%	5.3%	0.6%	963
Colombia	7.7%	7.8%	75.5%	7.2%	1.8%	356850

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

- **Pregunta 2.**

Observa el color preferido para escribir de 10 estudiantes:

Verde, morado, azul, negro, verde, azul, negro, azul, azul, negro.

¿Con cuál color prefieren escribir la mayoría de los estudiantes?

A. Azul.
B. Verde.
C. Negro.
D. Morado.

- **Estructura**

Competencia	Razonamiento
Componente	Aleatorio
Afirmación	Describir tendencias que se presentan en un conjunto a partir de los datos que lo describen.
Nivel de desempeño	Mínimo
Respuesta Correcta	A

• Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	53.8%	8.3%	27.8%	6.1%	4.0%	673
Antioquia	70.3%	7.2%	15.9%	4.1%	2.4%	20215
Apartadó	73.7%	5.7%	14.1%	4.2%	2.4%	1148
Arauca	75.9%	5.4%	14.4%	3.6%	0.8%	2390
Armenia	79.3%	4.2%	12.9%	2.3%	1.2%	1622
Atlántico	62.6%	5.5%	23.7%	4.2%	4.1%	4254
Barrancabermeja	74.2%	4.1%	16.9%	3.3%	1.5%	1948
Barranquilla	76.0%	3.0%	16.7%	2.5%	1.8%	8003
Bello	79.0%	4.8%	12.5%	2.3%	1.4%	3172
Bogotá, D.C.	82.8%	2.6%	12.1%	1.4%	1.1%	45988
Bolívar	65.1%	7.3%	19.3%	5.7%	2.6%	8608
Boyacá	76.6%	5.2%	14.5%	2.8%	0.8%	6339
Bucaramanga	86.4%	2.5%	8.4%	1.9%	0.8%	3695
Buenaventura	73.7%	5.1%	15.4%	3.2%	2.6%	3420
Buga	75.1%	5.1%	12.5%	4.8%	2.5%	687
Caldas	74.5%	6.3%	14.5%	3.6%	1.1%	4031
Cali	79.1%	3.7%	13.5%	2.1%	1.7%	13697
Caquetá	64.6%	7.1%	21.9%	4.0%	2.4%	2278
Cartagena	72.2%	4.7%	17.2%	3.5%	2.4%	7633
Cartago	73.9%	5.0%	17.1%	2.5%	1.4%	836
Casanare	74.6%	4.9%	16.6%	3.3%	0.6%	2496
Cauca	68.3%	6.2%	18.9%	3.9%	2.7%	9584
Cesar	69.9%	4.1%	20.7%	3.5%	1.7%	6406
Chocó	66.4%	8.3%	17.2%	5.0%	3.1%	3281
Chía	83.3%	3.7%	10.5%	1.8%	0.8%	1177
Ciénaga	61.5%	6.5%	22.8%	4.3%	4.9%	1036
Cundinamarca	77.2%	4.3%	15.3%	2.5%	0.7%	11702
Córdoba	65.1%	6.9%	20.7%	5.1%	2.2%	10335
Cúcuta	82.9%	3.4%	10.9%	2.1%	0.6%	5930
Dosquebradas	78.3%	3.8%	13.6%	3.1%	1.2%	1309
Duitama	89.3%	2.6%	6.9%	1.1%	0.0%	909
Envigado	84.9%	3.6%	9.6%	1.3%	0.5%	923
Facatativá	80.8%	3.9%	13.9%	1.0%	0.3%	964
Florencia	73.3%	5.3%	17.0%	3.2%	1.2%	1518
Floridablanca	87.5%	2.3%	7.9%	1.7%	0.6%	1777
Fusagasugá	82.3%	3.1%	11.4%	1.8%	1.3%	764
Girardot	70.5%	5.1%	18.9%	4.2%	1.3%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	85.2%	2.7%	8.9%	2.8%	0.4%	1124
Guainía	53.0%	9.5%	28.3%	6.4%	2.9%	453
Guaviare	62.2%	6.6%	23.7%	5.2%	2.3%	699
Huila	72.6%	6.0%	17.0%	3.3%	1.2%	5892
Ibagué	81.1%	3.0%	12.3%	2.6%	1.0%	3696
Ipiales	82.5%	3.5%	12.4%	1.5%	0.1%	945
Itagüí	80.8%	4.2%	12.5%	1.9%	0.6%	1292
Jamundí	72.9%	5.4%	15.6%	3.5%	2.6%	775
La Guajira	65.9%	5.9%	20.4%	5.1%	2.8%	3450
Lorica	67.1%	7.3%	17.6%	5.4%	2.6%	1031
Magangué	62.2%	7.6%	20.1%	6.6%	3.5%	1156
Magdalena	60.0%	6.7%	24.6%	5.2%	3.5%	6947
Maicao	60.3%	8.3%	22.7%	6.4%	2.4%	1721
Malambo	72.7%	3.7%	18.2%	4.0%	1.3%	818
Manizales	83.0%	3.7%	9.9%	2.3%	1.1%	2010
Medellín	75.0%	5.7%	14.9%	2.6%	1.8%	13570
Meta	71.9%	5.3%	18.4%	3.4%	0.9%	4476
Montería	69.8%	6.0%	17.9%	4.6%	1.7%	3934
Mosquera	79.9%	2.2%	15.0%	2.1%	0.7%	992
Nariño	76.9%	4.0%	13.5%	2.7%	2.9%	6221
Neiva	81.3%	4.2%	11.3%	2.3%	0.9%	2784
Norte de Santander	76.1%	4.5%	14.8%	3.6%	0.9%	6459
Palmira	82.2%	4.1%	10.8%	1.7%	1.1%	2054
Pasto	82.5%	2.8%	11.9%	2.1%	0.7%	2532
Pereira	78.3%	4.2%	13.4%	2.0%	2.1%	2984
Piedecuesta	84.9%	2.9%	9.1%	1.9%	1.2%	997
Pitalito	74.1%	4.0%	17.1%	2.4%	2.3%	1195
Popayán	80.6%	3.3%	12.3%	2.2%	1.6%	2036
Putumayo	71.9%	6.4%	16.0%	4.3%	1.5%	3085
Quibdó	71.4%	5.7%	16.2%	3.8%	2.9%	1031
Quindío	77.2%	4.2%	13.3%	2.9%	2.3%	1538
Riohacha	59.8%	5.7%	27.4%	4.6%	2.5%	2216
Rionegro	86.3%	3.9%	7.7%	1.7%	0.4%	765
Risaralda	72.7%	5.8%	15.0%	3.5%	2.9%	2035
Sabaneta	84.0%	3.0%	8.4%	0.8%	3.8%	394
Sahagún	71.4%	6.1%	18.8%	3.1%	0.7%	873
San Andrés	68.9%	5.5%	20.4%	3.5%	1.7%	402
Santa Marta	68.8%	4.6%	21.7%	3.1%	1.7%	4200
Santander	76.5%	5.1%	13.8%	3.5%	1.1%	6185

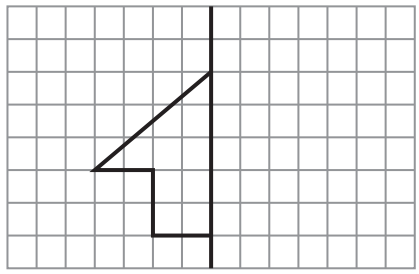
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	72.5%	5.7%	16.5%	4.0%	1.3%	2353
Soacha	77.3%	3.2%	16.6%	2.1%	0.9%	3935
Sogamoso	86.8%	3.8%	7.4%	1.5%	0.5%	1046
Soledad	78.6%	2.6%	14.2%	2.8%	1.7%	3730
Sucre	64.1%	7.4%	20.0%	5.9%	2.5%	5961
Tolima	68.0%	6.3%	19.9%	4.2%	1.5%	6918
Tuluá	78.9%	4.0%	13.7%	2.5%	1.0%	1463
Tumaco	59.9%	8.0%	22.9%	5.0%	4.2%	2018
Tunja	85.1%	2.6%	9.8%	1.6%	0.8%	1403
Turbo	65.7%	7.6%	18.8%	5.6%	2.3%	1937
Uribia	48.7%	13.6%	25.3%	7.4%	5.0%	1575
Valle del Cauca	74.6%	5.2%	15.2%	3.1%	1.8%	5681
Valledupar	73.0%	4.0%	18.2%	3.1%	1.7%	3914
Vaupés	42.2%	10.2%	32.3%	13.9%	1.4%	353
Vichada	55.0%	10.3%	25.7%	6.8%	2.2%	777
Villavicencio	80.4%	4.0%	12.9%	1.9%	0.8%	3999
Yopal	74.8%	5.2%	16.0%	3.4%	0.7%	1531
Yumbo	78.0%	4.5%	13.2%	2.9%	1.4%	870
Zipaquirá	84.3%	2.4%	12.0%	0.7%	0.5%	963
Colombia	74.4%	4.9%	15.8%	3.2%	1.7%	356850

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 3.

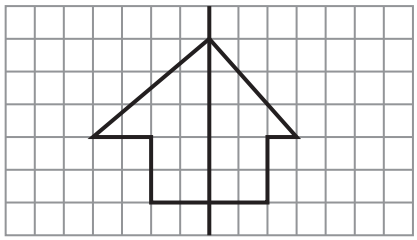
Una flecha se dividió en 2 partes iguales. Observa en la figura una de las partes.



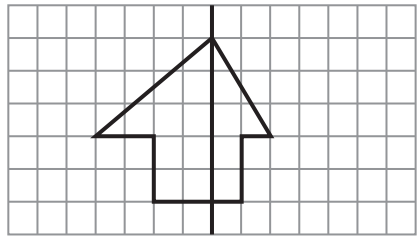
Figura

¿Cuál figura muestra la flecha completa?

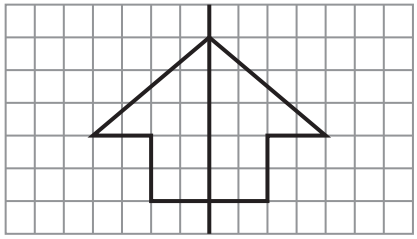
A.



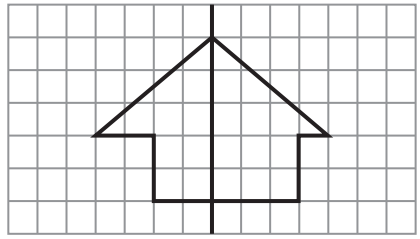
B.



C.



D.



• Estructura

Competencia	Razonamiento
Componente	Espacial - Métrico
Afirmación	Establecer conjeturas acerca de las propiedades de las figuras planas cuando sobre ellas se ha hecho una transformación (traslación, rotación, reflexión (simetría), ampliación, reducción).
Nivel de desempeño	Mínimo
Respuesta Correcta	C

• Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	4.6%	7.7%	79.2%	4.8%	3.7%	673
Antioquia	5.6%	4.4%	84.9%	2.7%	2.4%	20215
Apartadó	5.7%	6.6%	81.7%	3.7%	2.3%	1148
Arauca	5.1%	4.6%	87.1%	2.3%	0.9%	2390
Armenia	5.9%	3.5%	86.9%	2.5%	1.2%	1622
Atlántico	7.2%	7.6%	77.1%	4.3%	3.9%	4254
Barrancabermeja	5.9%	3.3%	87.4%	1.9%	1.5%	1948
Barranquilla	5.7%	4.2%	86.1%	2.5%	1.4%	8003
Bello	4.8%	2.9%	89.1%	2.0%	1.3%	3172
Bogotá, D.C.	4.6%	2.1%	90.8%	1.4%	1.1%	45988
Bolívar	8.8%	9.3%	73.8%	5.4%	2.7%	8608
Boyacá	6.2%	3.3%	87.5%	2.2%	0.8%	6339
Bucaramanga	4.5%	2.2%	90.6%	1.9%	0.8%	3695
Buenaventura	6.0%	5.7%	82.3%	3.2%	2.8%	3420
Buga	6.1%	3.2%	84.9%	2.6%	3.2%	687
Caldas	5.7%	3.5%	87.3%	2.5%	1.0%	4031
Cali	4.8%	3.1%	88.7%	1.8%	1.7%	13697
Caquetá	5.1%	3.7%	85.1%	3.4%	2.7%	2278
Cartagena	6.3%	5.2%	82.5%	3.6%	2.3%	7633
Cartago	6.1%	3.5%	86.1%	2.9%	1.4%	836
Casanare	4.7%	3.3%	88.9%	2.4%	0.7%	2496
Cauca	6.4%	4.7%	83.1%	3.2%	2.6%	9584
Cesar	5.2%	5.7%	84.0%	3.3%	1.8%	6406
Chocó	7.0%	8.5%	76.0%	5.1%	3.4%	3281
Chía	3.7%	1.2%	92.9%	1.4%	0.8%	1177
Ciénaga	7.5%	6.4%	77.3%	4.1%	4.7%	1036
Cundinamarca	4.9%	3.0%	89.8%	1.7%	0.6%	11702
Córdoba	6.7%	8.2%	78.6%	4.3%	2.2%	10335
Cúcuta	5.1%	3.7%	88.8%	1.7%	0.7%	5930
Dosquebradas	4.8%	2.8%	90.1%	1.5%	0.9%	1309
Duitama	4.1%	2.1%	92.1%	1.5%	0.2%	909
Envigado	4.9%	1.4%	92.2%	1.0%	0.5%	923
Facatativá	5.5%	2.6%	90.6%	0.9%	0.4%	964
Florencia	5.3%	4.3%	87.7%	1.9%	0.8%	1518
Floridablanca	4.4%	1.5%	92.2%	1.2%	0.8%	1777
Fusagasugá	4.2%	3.4%	88.5%	2.4%	1.6%	764
Girardot	5.5%	4.5%	86.2%	2.8%	1.0%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	4.5%	3.1%	89.6%	2.2%	0.5%	1124
Guainía	6.2%	7.1%	81.9%	3.1%	1.8%	453
Guaviare	4.3%	5.3%	83.8%	4.6%	2.0%	699
Huila	5.7%	3.8%	86.7%	2.5%	1.2%	5892
Ibagué	4.4%	2.7%	90.1%	1.6%	1.2%	3696
Ipiales	5.5%	3.4%	89.4%	1.6%	0.1%	945
Itagüí	5.3%	2.3%	89.7%	2.1%	0.6%	1292
Jamundí	4.6%	4.6%	87.0%	2.1%	1.7%	775
La Guajira	6.6%	7.7%	77.8%	5.0%	2.8%	3450
Lorica	6.4%	7.0%	79.0%	4.6%	3.1%	1031
Magangué	7.5%	10.5%	72.5%	6.2%	3.3%	1156
Magdalena	6.1%	8.9%	77.1%	4.6%	3.3%	6947
Maicao	7.4%	8.5%	76.0%	5.5%	2.6%	1721
Malambo	5.0%	4.4%	84.1%	4.6%	1.8%	818
Manizales	5.0%	2.9%	88.9%	2.0%	1.2%	2010
Medellín	5.5%	3.4%	87.5%	1.8%	1.7%	13570
Meta	4.8%	4.1%	88.2%	2.1%	0.9%	4476
Montería	6.2%	7.0%	81.3%	3.7%	1.9%	3934
Mosquera	4.0%	2.4%	91.2%	1.6%	0.7%	992
Nariño	6.1%	3.6%	85.1%	2.3%	2.8%	6221
Neiva	4.6%	3.4%	89.1%	2.2%	0.6%	2784
Norte de Santander	5.4%	3.1%	88.1%	2.4%	1.0%	6459
Palmira	5.0%	2.9%	89.2%	1.9%	1.0%	2054
Pasto	5.7%	2.2%	89.1%	2.0%	0.9%	2532
Pereira	4.8%	3.3%	88.6%	1.5%	1.8%	2984
Piedecuesta	4.5%	3.0%	89.5%	1.7%	1.3%	997
Pitalito	4.7%	3.7%	87.1%	2.1%	2.4%	1195
Popayán	3.7%	3.6%	88.9%	2.5%	1.3%	2036
Putumayo	5.5%	3.8%	86.7%	2.5%	1.5%	3085
Quibdó	6.4%	7.0%	79.4%	4.2%	3.0%	1031
Quindío	4.9%	3.6%	87.1%	2.3%	2.1%	1538
Riohacha	6.7%	6.8%	78.4%	5.4%	2.7%	2216
Rionegro	5.5%	2.1%	90.6%	1.2%	0.7%	765
Risaralda	5.9%	3.8%	85.4%	2.3%	2.7%	2035
Sabaneta	4.3%	1.3%	89.3%	1.0%	4.1%	394
Sahagún	7.1%	6.0%	79.8%	6.1%	1.0%	873
San Andrés	5.7%	6.2%	83.8%	3.0%	1.2%	402
Santa Marta	6.7%	4.9%	84.0%	2.6%	1.8%	4200
Santander	4.9%	3.7%	87.8%	2.5%	1.1%	6185

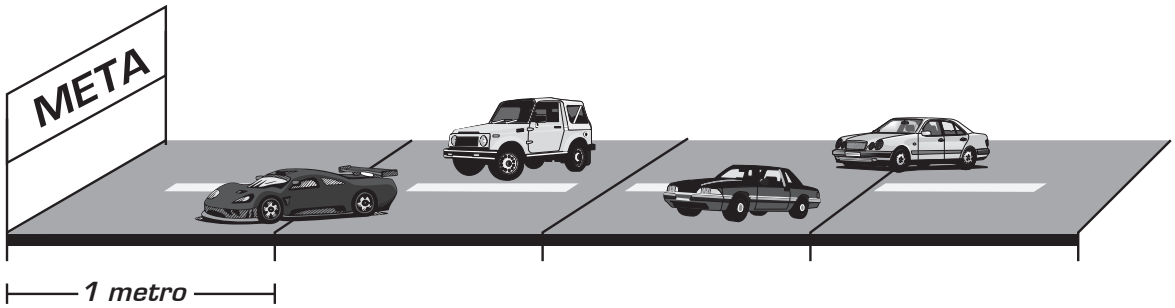
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	7.1%	6.8%	81.5%	3.1%	1.4%	2353
Soacha	5.4%	2.3%	90.2%	1.3%	0.7%	3935
Sogamoso	5.3%	2.1%	89.9%	2.4%	0.4%	1046
Soledad	5.9%	4.2%	85.6%	2.6%	1.7%	3730
Sucre	7.3%	9.5%	75.5%	5.3%	2.5%	5961
Tolima	6.0%	5.9%	83.3%	3.4%	1.5%	6918
Tuluá	5.4%	3.8%	88.1%	1.9%	0.8%	1463
Tumaco	7.4%	8.8%	73.8%	5.4%	4.6%	2018
Tunja	4.5%	2.6%	90.4%	1.8%	0.8%	1403
Turbo	7.5%	7.5%	78.2%	4.7%	2.0%	1937
Uribia	7.3%	12.3%	66.7%	9.1%	4.6%	1575
Valle del Cauca	5.5%	4.2%	86.7%	2.0%	1.7%	5681
Valledupar	5.1%	4.2%	85.8%	3.0%	1.9%	3914
Vaupés	5.9%	6.8%	78.2%	5.1%	4.0%	353
Vichada	5.8%	8.0%	78.4%	5.0%	2.8%	777
Villavicencio	4.6%	2.8%	90.0%	2.1%	0.5%	3999
Yopal	5.6%	3.3%	88.7%	1.4%	1.0%	1531
Yumbo	5.4%	3.9%	87.8%	1.0%	1.8%	870
Zipaquirá	4.2%	2.0%	91.9%	1.7%	0.3%	963
Colombia	5.6%	4.4%	85.7%	2.7%	1.7%	356850

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 4.

Observa en el dibujo la ubicación de 4 carros antes de llegar a la meta.



¿A cuáles carros les falta menos de 2 metros para llegar a la meta?

A. y

B. y

C y

D. y

• Estructura

Competencia	Comunicación
Componente	Espacial - Métrico
Afirmación	Ubicar objetos con base en instrucciones referentes a dirección, distancia y posición.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	D

- **Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	32.2%	17.4%	16.8%	29.7%	3.9%	673
Antioquia	23.5%	10.2%	12.7%	51.0%	2.6%	20215
Apartadó	23.1%	9.2%	14.3%	50.7%	2.7%	1148
Arauca	18.3%	8.1%	13.8%	59.0%	0.8%	2390
Armenia	14.0%	7.7%	20.4%	56.4%	1.5%	1622
Atlántico	24.6%	10.8%	14.6%	44.9%	5.0%	4254
Barrancabermeja	15.9%	8.0%	15.8%	58.8%	1.5%	1948
Barranquilla	16.0%	8.5%	15.4%	58.4%	1.7%	8003
Bello	15.0%	7.8%	17.1%	58.2%	1.8%	3172
Bogotá, D.C.	9.8%	6.2%	18.5%	64.1%	1.4%	45988
Bolívar	30.8%	13.5%	13.3%	39.0%	3.4%	8608
Boyacá	14.5%	8.1%	16.6%	59.8%	1.1%	6339
Bucaramanga	9.5%	5.8%	17.2%	66.7%	0.9%	3695
Buenaventura	24.1%	12.1%	13.1%	47.2%	3.5%	3420
Buga	17.8%	9.5%	19.5%	50.8%	2.5%	687
Caldas	20.1%	9.7%	14.1%	54.9%	1.1%	4031
Cali	15.1%	8.8%	16.8%	57.1%	2.1%	13697
Caquetá	26.3%	10.6%	10.0%	50.0%	3.1%	2278
Cartagena	18.5%	9.8%	13.3%	55.7%	2.8%	7633
Cartago	16.9%	9.0%	18.8%	53.7%	1.7%	836
Casanare	15.5%	8.9%	14.9%	59.7%	1.0%	2496
Cauca	23.9%	11.9%	14.0%	47.1%	3.1%	9584
Cesar	22.4%	11.3%	13.5%	50.4%	2.4%	6406
Chocó	30.1%	15.7%	12.9%	38.2%	3.2%	3281
Chía	10.2%	5.7%	18.0%	65.3%	0.8%	1177
Ciénaga	29.6%	11.3%	11.5%	43.1%	4.5%	1036
Cundinamarca	13.3%	7.1%	16.3%	62.4%	0.9%	11702
Córdoba	26.1%	12.5%	14.3%	44.5%	2.7%	10335
Cúcuta	11.5%	5.3%	18.9%	63.5%	0.8%	5930
Dosquebradas	17.3%	9.0%	16.0%	56.0%	1.7%	1309
Duitama	5.9%	5.0%	19.6%	69.3%	0.2%	909
Envigado	10.3%	4.9%	16.6%	67.2%	1.1%	923
Facatativá	9.2%	7.1%	17.6%	65.6%	0.5%	964
Florencia	20.8%	9.1%	15.5%	53.2%	1.4%	1518
Floridablanca	5.7%	4.1%	17.6%	71.6%	1.0%	1777
Fusagasugá	11.3%	6.3%	17.5%	63.5%	1.4%	764
Girardot	19.8%	11.4%	15.5%	51.3%	2.0%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	9.7%	7.6%	17.0%	65.1%	0.6%	1124
Guainía	28.7%	14.8%	13.7%	39.7%	3.1%	453
Guaviare	26.0%	9.4%	13.0%	49.1%	2.4%	699
Huila	20.7%	10.4%	14.2%	53.2%	1.5%	5892
Ibagué	11.6%	7.0%	16.6%	63.4%	1.4%	3696
Ipiales	12.6%	11.0%	21.5%	54.2%	0.7%	945
Itagüí	10.5%	5.7%	15.9%	66.9%	1.0%	1292
Jamundí	20.3%	11.1%	18.2%	47.2%	3.2%	775
La Guajira	23.5%	14.2%	13.4%	45.7%	3.2%	3450
Lorica	26.2%	11.8%	14.8%	44.2%	2.9%	1031
Magangué	29.3%	15.3%	12.8%	38.2%	4.3%	1156
Magdalena	28.8%	14.3%	11.5%	41.3%	4.1%	6947
Maicao	28.4%	15.5%	15.2%	38.2%	2.7%	1721
Malambo	18.8%	8.1%	13.3%	58.3%	1.5%	818
Manizales	12.5%	7.1%	15.6%	63.1%	1.6%	2010
Medellín	18.6%	8.3%	16.4%	54.4%	2.4%	13570
Meta	18.7%	9.3%	15.2%	55.6%	1.3%	4476
Montería	20.6%	10.0%	17.5%	49.8%	2.1%	3934
Mosquera	10.5%	6.5%	20.0%	62.2%	0.9%	992
Nariño	18.1%	10.2%	15.7%	52.5%	3.6%	6221
Neiva	13.8%	7.8%	18.3%	59.1%	1.0%	2784
Norte de Santander	16.8%	8.1%	14.8%	59.3%	1.1%	6459
Palmira	12.4%	6.9%	19.3%	60.5%	1.0%	2054
Pasto	10.2%	8.9%	23.3%	56.2%	1.3%	2532
Pereira	16.2%	7.4%	13.9%	60.3%	2.3%	2984
Piedecuesta	9.4%	5.3%	15.4%	68.0%	1.8%	997
Pitalito	18.1%	10.6%	13.6%	55.3%	2.4%	1195
Popayán	13.1%	8.5%	16.4%	60.5%	1.5%	2036
Putumayo	21.2%	11.9%	15.1%	50.0%	1.8%	3085
Quibdó	25.4%	10.0%	17.5%	43.8%	3.3%	1031
Quindío	16.1%	7.7%	16.3%	58.0%	1.9%	1538
Riohacha	26.8%	12.3%	13.7%	43.7%	3.6%	2216
Rionegro	11.4%	6.1%	15.0%	66.4%	1.0%	765
Risaralda	19.4%	10.6%	12.9%	54.3%	2.9%	2035
Sabaneta	6.1%	4.6%	17.0%	68.0%	4.3%	394
Sahagún	19.2%	12.3%	17.3%	50.3%	0.9%	873
San Andrés	22.6%	10.9%	15.7%	48.0%	2.7%	402
Santa Marta	24.2%	11.4%	14.9%	47.0%	2.6%	4200
Santander	16.4%	8.3%	14.2%	59.5%	1.5%	6185

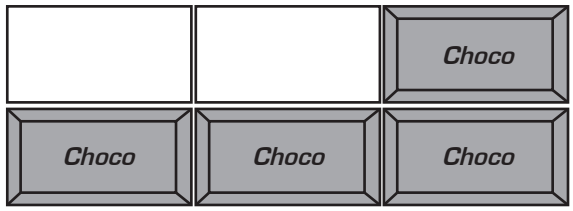
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	18.8%	10.3%	17.1%	52.0%	1.7%	2353
Soacha	12.4%	7.3%	17.9%	61.5%	0.9%	3935
Sogamoso	6.9%	5.4%	20.2%	67.1%	0.5%	1046
Soledad	12.9%	8.7%	15.5%	61.2%	1.8%	3730
Sucre	28.2%	14.3%	14.4%	40.3%	2.8%	5961
Tolima	21.5%	10.8%	14.8%	50.8%	2.1%	6918
Tuluá	16.1%	9.6%	17.3%	55.6%	1.4%	1463
Tumaco	30.4%	13.7%	12.7%	37.8%	5.4%	2018
Tunja	9.0%	5.5%	18.7%	65.6%	1.2%	1403
Turbo	28.1%	11.6%	10.6%	47.2%	2.5%	1937
Uribia	24.7%	21.4%	15.5%	33.0%	5.4%	1575
Valle del Cauca	19.4%	9.1%	16.0%	53.2%	2.3%	5681
Valledupar	19.1%	9.7%	14.6%	54.3%	2.3%	3914
Vaupés	31.4%	21.5%	11.6%	32.0%	3.4%	353
Vichada	27.2%	15.1%	16.2%	39.1%	2.4%	777
Villavicencio	12.6%	6.7%	15.5%	64.3%	0.9%	3999
Yopal	14.7%	7.9%	21.2%	55.4%	0.8%	1531
Yumbo	14.8%	10.1%	19.3%	53.4%	2.3%	870
Zipaquirá	8.9%	5.8%	16.1%	68.3%	0.8%	963
Colombia	18.1%	9.3%	15.7%	54.9%	2.1%	356850

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

- **Pregunta 5.**

En la figura, la parte blanca corresponde a los trozos de chocolatina que se comió Martín.



Figura

¿Cuál fracción representa la parte de la chocolatina que se comió Martín?

A. $\frac{4}{6}$

B. $\frac{2}{6}$

C. $\frac{6}{4}$

D. $\frac{6}{2}$

- **Estructura**

Competencia	Comunicación
Componente	Numérico - Variacional
Afirmación	Usar fracciones comunes para describir situaciones continuas y discretas.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	B

- **Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	10.5%	47.7%	11.9%	25.4%	4.5%	673
Antioquia	10.6%	59.1%	7.2%	20.3%	2.7%	20215
Apartadó	14.1%	58.4%	6.9%	17.9%	2.6%	1148
Arauca	9.0%	63.1%	6.9%	20.2%	0.8%	2390
Armenia	11.7%	59.2%	7.5%	19.7%	1.9%	1622
Atlántico	12.8%	54.2%	9.7%	19.0%	4.3%	4254
Barrancabermeja	11.7%	61.8%	5.9%	18.8%	1.7%	1948
Barranquilla	12.1%	59.2%	7.2%	19.6%	1.8%	8003
Bello	12.9%	60.2%	6.4%	18.8%	1.7%	3172
Bogotá, D.C.	10.9%	62.8%	5.8%	19.1%	1.4%	45988
Bolívar	13.8%	51.2%	10.9%	20.4%	3.6%	8608
Boyacá	10.3%	64.7%	5.6%	18.6%	0.8%	6339
Bucaramanga	11.2%	66.1%	5.3%	16.2%	1.2%	3695
Buenaventura	9.3%	61.2%	8.3%	18.2%	3.0%	3420
Buga	7.6%	62.9%	7.0%	19.7%	2.9%	687
Caldas	10.9%	61.0%	6.2%	20.8%	1.1%	4031
Cali	11.6%	60.6%	6.4%	19.4%	2.0%	13697
Caquetá	8.4%	62.7%	7.4%	19.0%	2.5%	2278
Cartagena	13.0%	58.3%	8.1%	17.8%	2.9%	7633
Cartago	13.6%	58.4%	6.9%	19.7%	1.3%	836
Casanare	10.7%	61.8%	6.7%	20.1%	0.7%	2496
Cauca	10.7%	60.7%	7.6%	17.9%	3.1%	9584
Cesar	11.4%	59.4%	8.1%	18.9%	2.2%	6406
Chocó	11.9%	54.8%	10.8%	18.9%	3.7%	3281
Chía	9.9%	66.4%	4.3%	18.4%	0.9%	1177
Ciénaga	14.8%	52.3%	10.3%	18.4%	4.2%	1036
Cundinamarca	11.5%	64.0%	6.3%	17.5%	0.7%	11702
Córdoba	11.7%	56.7%	9.0%	20.3%	2.4%	10335
Cúcuta	13.6%	60.7%	6.2%	18.5%	0.9%	5930
Dosquebradas	12.6%	57.7%	7.3%	21.2%	1.1%	1309
Duitama	11.3%	68.6%	4.8%	15.0%	0.2%	909
Envigado	8.5%	64.1%	6.5%	20.5%	0.4%	923
Facatativá	11.3%	64.7%	4.9%	18.7%	0.4%	964
Florencia	9.6%	57.6%	6.5%	24.5%	1.8%	1518
Floridablanca	10.4%	69.7%	4.3%	14.9%	0.7%	1777
Fusagasugá	12.8%	66.6%	5.4%	13.9%	1.3%	764
Girardot	13.4%	48.9%	9.3%	26.6%	1.8%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	10.6%	64.4%	5.2%	19.2%	0.6%	1124
Guainía	12.8%	55.0%	11.0%	19.0%	2.2%	453
Guaviare	9.4%	59.5%	7.4%	20.3%	3.3%	699
Huila	10.8%	60.9%	7.5%	19.5%	1.3%	5892
Ibagué	11.7%	63.1%	6.0%	18.2%	1.0%	3696
Ipiales	10.2%	64.7%	5.8%	18.5%	0.8%	945
Itagüí	11.5%	62.4%	6.5%	18.7%	0.9%	1292
Jamundí	10.8%	52.6%	7.2%	26.3%	3.0%	775
La Guajira	10.1%	56.8%	10.5%	19.8%	2.9%	3450
Lorica	10.6%	56.5%	8.4%	21.1%	3.4%	1031
Magangué	14.1%	48.2%	11.2%	22.9%	3.6%	1156
Magdalena	11.5%	54.4%	10.2%	19.8%	4.0%	6947
Maicao	13.9%	50.1%	11.5%	21.0%	3.5%	1721
Malambo	8.2%	62.6%	7.1%	20.3%	1.8%	818
Manizales	11.7%	63.1%	5.0%	18.8%	1.4%	2010
Medellín	12.3%	56.5%	7.2%	21.7%	2.2%	13570
Meta	10.9%	62.0%	6.6%	19.4%	1.0%	4476
Montería	12.9%	57.8%	8.2%	19.0%	2.0%	3934
Mosquera	11.9%	61.0%	5.1%	21.1%	0.9%	992
Nariño	10.4%	63.1%	7.1%	16.4%	3.0%	6221
Neiva	11.6%	61.1%	6.3%	19.9%	1.1%	2784
Norte de Santander	10.4%	64.7%	6.1%	17.6%	1.2%	6459
Palmira	10.9%	58.9%	7.6%	21.2%	1.5%	2054
Pasto	10.9%	61.7%	6.6%	19.8%	1.0%	2532
Pereira	10.9%	62.6%	6.0%	18.8%	1.8%	2984
Piedecuesta	10.8%	66.2%	5.9%	15.7%	1.3%	997
Pitalito	13.1%	61.8%	5.4%	17.5%	2.3%	1195
Popayán	11.5%	64.0%	6.4%	16.2%	1.9%	2036
Putumayo	11.6%	58.7%	7.4%	20.7%	1.6%	3085
Quibdó	12.1%	58.9%	7.7%	17.9%	3.4%	1031
Quindío	12.2%	60.5%	6.3%	18.7%	2.3%	1538
Riohacha	11.2%	54.6%	9.3%	21.2%	3.7%	2216
Rionegro	12.3%	62.1%	5.8%	19.5%	0.4%	765
Risaralda	10.2%	61.5%	7.2%	18.0%	3.1%	2035
Sabaneta	8.1%	67.3%	3.6%	17.0%	4.1%	394
Sahagún	12.9%	59.0%	10.2%	16.8%	1.0%	873
San Andrés	15.7%	54.0%	6.0%	21.4%	3.0%	402
Santa Marta	12.0%	58.2%	6.4%	21.4%	2.0%	4200
Santander	11.2%	64.9%	5.8%	16.8%	1.2%	6185

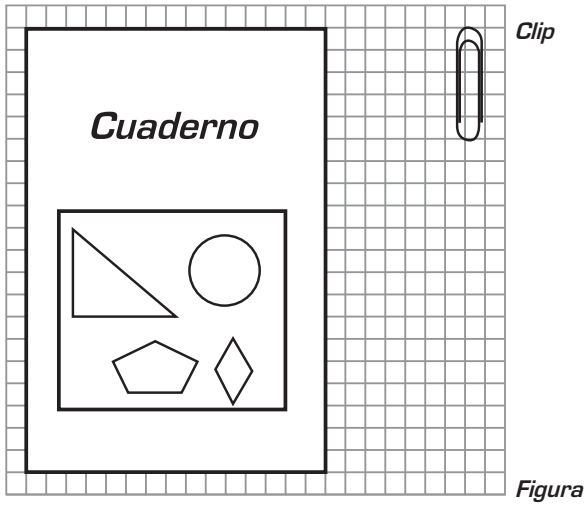
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	12.1%	57.6%	6.7%	21.5%	2.0%	2353
Soacha	11.6%	60.3%	6.2%	21.1%	0.9%	3935
Sogamoso	8.3%	66.2%	5.1%	19.7%	0.8%	1046
Soledad	10.4%	64.6%	6.3%	17.2%	1.6%	3730
Sucre	13.8%	51.7%	10.7%	20.7%	3.2%	5961
Tolima	12.1%	55.9%	9.2%	21.1%	1.8%	6918
Tuluá	11.3%	63.2%	5.9%	18.8%	0.8%	1463
Tumaco	10.8%	53.0%	10.0%	21.0%	5.2%	2018
Tunja	9.7%	67.6%	5.5%	16.3%	1.0%	1403
Turbo	12.3%	56.2%	10.0%	19.1%	2.4%	1937
Uribia	14.4%	44.4%	14.9%	20.4%	5.8%	1575
Valle del Cauca	11.2%	57.1%	6.9%	22.7%	2.0%	5681
Valledupar	12.5%	58.3%	7.2%	19.8%	2.2%	3914
Vaupés	12.2%	43.1%	14.2%	28.0%	2.5%	353
Vichada	11.6%	52.3%	11.6%	22.0%	2.6%	777
Villavicencio	9.2%	66.9%	5.5%	17.4%	1.0%	3999
Yopal	11.0%	62.2%	6.9%	19.1%	0.7%	1531
Yumbo	13.0%	57.1%	6.2%	21.5%	2.2%	870
Zipaquirá	12.9%	69.9%	4.4%	11.8%	1.0%	963
Colombia	11.4%	60.0%	7.2%	19.3%	2.0%	356850

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 6.

Cristian tiene un cuaderno de matemáticas y un clip como se observa en la figura.



Si Cristian mide el lado más largo de su cuaderno con el clip, ¿cuántos clips mide este lado?

A. 3 clips.
B. 4 clips.
C. 6 clips.
D. 5 clips.

• Estructura

Competencia	Resolución
Componente	Espacial - Métrico
Afirmación	Estimar medidas con patrones arbitrarios.
Nivel de desempeño	Avanzado
Respuesta Correcta	B

- **Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	18.9%	42.6%	20.8%	13.2%	4.5%	673
Antioquia	14.3%	52.2%	13.6%	17.4%	2.4%	20215
Apartadó	16.6%	49.5%	12.9%	18.5%	2.6%	1148
Arauca	14.4%	59.5%	10.7%	15.0%	0.5%	2390
Armenia	17.2%	50.1%	12.5%	18.7%	1.5%	1622
Atlántico	13.8%	51.0%	15.5%	15.9%	3.8%	4254
Barrancabermeja	15.6%	56.1%	10.8%	16.1%	1.4%	1948
Barranquilla	15.9%	54.5%	10.6%	17.3%	1.7%	8003
Bello	17.2%	51.4%	11.1%	18.7%	1.6%	3172
Bogotá, D.C.	15.5%	56.9%	10.0%	16.4%	1.2%	45988
Bolívar	14.8%	46.1%	17.5%	18.5%	3.1%	8608
Boyacá	14.0%	57.8%	12.4%	15.0%	0.8%	6339
Bucaramanga	16.1%	58.1%	10.0%	14.8%	1.0%	3695
Buenaventura	15.9%	55.1%	12.1%	14.1%	2.8%	3420
Buga	15.4%	52.1%	11.1%	19.1%	2.3%	687
Caldas	13.2%	54.9%	12.8%	17.9%	1.2%	4031
Cali	15.7%	55.2%	10.9%	16.4%	1.8%	13697
Caquetá	13.8%	55.8%	13.0%	15.1%	2.3%	2278
Cartagena	15.5%	55.9%	11.0%	15.1%	2.4%	7633
Cartago	19.0%	51.6%	12.3%	16.3%	0.8%	836
Casanare	15.1%	55.1%	11.9%	16.9%	0.9%	2496
Cauca	12.2%	56.7%	13.3%	15.2%	2.7%	9584
Cesar	15.6%	52.0%	13.6%	16.8%	2.0%	6406
Chocó	16.5%	48.2%	16.7%	15.6%	3.0%	3281
Chía	15.6%	57.1%	10.4%	16.3%	0.6%	1177
Ciénaga	17.6%	46.5%	14.6%	16.9%	4.4%	1036
Cundinamarca	14.3%	57.6%	11.1%	16.1%	0.8%	11702
Córdoba	16.0%	50.3%	15.6%	15.8%	2.3%	10335
Cúcuta	15.8%	56.1%	10.2%	17.2%	0.7%	5930
Dosquebradas	16.4%	53.2%	9.9%	18.9%	1.5%	1309
Duitama	15.3%	62.4%	8.4%	14.0%	0.0%	909
Envigado	13.5%	62.5%	7.4%	16.0%	0.5%	923
Facatativá	17.5%	54.4%	9.9%	17.6%	0.6%	964
Florencia	13.4%	58.5%	11.3%	15.6%	1.2%	1518
Floridablanca	15.7%	59.0%	7.6%	17.0%	0.7%	1777
Fusagasugá	15.4%	55.9%	9.7%	17.0%	2.0%	764
Girardot	17.4%	53.1%	13.4%	15.0%	1.1%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	15.7%	57.0%	12.3%	14.4%	0.5%	1124
Guainía	12.6%	50.3%	18.5%	16.3%	2.2%	453
Guaviare	13.4%	50.8%	16.5%	16.3%	3.0%	699
Huila	13.7%	55.6%	12.2%	17.0%	1.5%	5892
Ibagué	15.5%	56.9%	10.2%	16.1%	1.3%	3696
Ipiales	14.7%	62.4%	9.6%	13.0%	0.2%	945
Itagüí	16.9%	54.6%	10.8%	16.9%	0.9%	1292
Jamundí	17.0%	48.8%	13.0%	18.1%	3.1%	775
La Guajira	14.1%	51.4%	16.2%	15.7%	2.6%	3450
Lorica	15.6%	52.2%	12.5%	17.0%	2.7%	1031
Magangué	17.0%	43.9%	16.6%	19.3%	3.1%	1156
Magdalena	14.2%	51.6%	15.7%	15.4%	3.1%	6947
Maicao	14.6%	47.5%	18.1%	17.3%	2.5%	1721
Malambo	12.3%	58.2%	8.6%	18.9%	2.0%	818
Manizales	14.5%	55.1%	11.5%	17.7%	1.1%	2010
Medellín	16.9%	50.2%	11.7%	19.2%	2.0%	13570
Meta	14.7%	55.6%	11.5%	17.1%	1.1%	4476
Montería	16.5%	49.6%	15.0%	17.1%	1.9%	3934
Mosquera	16.3%	56.7%	9.4%	17.0%	0.6%	992
Nariño	12.5%	59.2%	11.4%	13.9%	3.1%	6221
Neiva	16.5%	50.5%	12.4%	19.5%	1.1%	2784
Norte de Santander	13.9%	59.3%	11.1%	14.8%	0.9%	6459
Palmira	15.7%	54.5%	10.9%	17.5%	1.4%	2054
Pasto	17.0%	55.9%	10.8%	15.6%	0.7%	2532
Pereira	14.6%	55.7%	10.5%	17.1%	2.1%	2984
Piedecuesta	15.1%	61.3%	9.7%	12.3%	1.5%	997
Pitalito	14.7%	56.5%	11.8%	14.7%	2.3%	1195
Popayán	14.2%	59.6%	10.2%	14.2%	1.8%	2036
Putumayo	14.4%	55.4%	13.2%	15.5%	1.6%	3085
Quibdó	16.9%	46.6%	15.2%	18.0%	3.3%	1031
Quindío	16.2%	52.0%	12.2%	17.3%	2.4%	1538
Riohacha	16.1%	50.9%	15.1%	15.3%	2.6%	2216
Rionegro	15.4%	59.2%	9.3%	15.6%	0.5%	765
Risaralda	14.8%	53.8%	11.4%	17.3%	2.6%	2035
Sabaneta	15.2%	60.4%	9.4%	10.4%	4.6%	394
Sahagún	14.9%	51.1%	14.1%	18.7%	1.3%	873
San Andrés	20.9%	40.5%	17.2%	18.4%	3.0%	402
Santa Marta	17.8%	51.9%	12.2%	16.1%	2.0%	4200
Santander	14.3%	57.9%	11.8%	14.8%	1.3%	6185

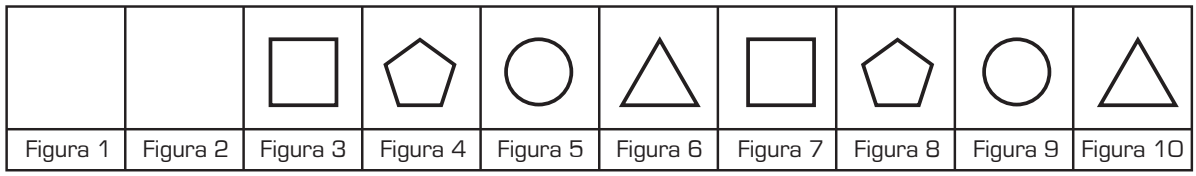
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	14.7%	52.1%	13.0%	18.7%	1.4%	2353
Soacha	16.7%	55.3%	9.9%	17.2%	0.9%	3935
Sogamoso	14.9%	60.1%	10.4%	14.0%	0.6%	1046
Soledad	15.5%	58.0%	9.7%	14.9%	1.8%	3730
Sucre	15.7%	47.4%	17.4%	17.2%	2.4%	5961
Tolima	13.8%	54.3%	13.0%	17.2%	1.6%	6918
Tuluá	15.9%	55.0%	10.3%	18.0%	0.8%	1463
Tumaco	16.2%	47.9%	15.8%	15.8%	4.4%	2018
Tunja	13.1%	59.9%	10.0%	16.5%	0.6%	1403
Turbo	17.1%	49.6%	14.2%	17.3%	1.9%	1937
Uribia	15.0%	43.7%	20.0%	16.3%	5.0%	1575
Valle del Cauca	15.7%	53.6%	11.3%	17.5%	1.9%	5681
Valledupar	14.4%	55.2%	12.1%	16.5%	1.9%	3914
Vaupés	15.3%	36.0%	23.8%	21.8%	3.1%	353
Vichada	17.8%	43.4%	18.1%	17.9%	2.8%	777
Villavicencio	14.3%	59.2%	10.4%	15.2%	0.9%	3999
Yopal	16.7%	54.5%	11.2%	16.5%	1.2%	1531
Yumbo	15.3%	52.6%	12.5%	18.3%	1.3%	870
Zipaquirá	13.6%	58.8%	8.4%	18.6%	0.6%	963
Colombia	15.2%	54.3%	12.2%	16.5%	1.8%	356850

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

- **Pregunta 7.**

En la siguiente secuencia faltan las 2 primeras figuras. Observa.



¿Cuáles son las 2 primeras figuras de la secuencia?

A.

B.

C.

D.

- **Estructura**

Competencia	Comunicación
Componente	Numérico - Variacional
Afirmación	Construir y describir secuencias numéricas y geométricas.
Nivel de desempeño	Avanzado
Respuesta Correcta	C

- **Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	21.1%	25.9%	30.3%	17.1%	5.6%	673
Antioquia	23.5%	22.7%	35.5%	15.7%	2.6%	20215
Apartadó	24.1%	25.3%	34.6%	13.1%	2.9%	1148
Arauca	21.9%	24.1%	39.0%	14.2%	0.9%	2390
Armenia	21.5%	21.6%	41.7%	13.5%	1.7%	1622
Atlántico	19.7%	23.7%	38.4%	14.1%	4.3%	4254
Barrancabermeja	21.4%	19.8%	42.2%	14.8%	1.7%	1948
Barranquilla	18.0%	19.3%	48.0%	12.7%	2.0%	8003
Bello	21.1%	23.5%	38.9%	14.4%	2.1%	3172
Bogotá, D.C.	17.9%	17.5%	50.9%	12.3%	1.4%	45988
Bolívar	23.8%	24.4%	32.3%	16.3%	3.2%	8608
Boyacá	21.1%	21.0%	43.2%	13.7%	1.0%	6339
Bucaramanga	17.4%	18.2%	52.2%	11.3%	1.0%	3695
Buenaventura	23.2%	21.6%	37.9%	14.0%	3.3%	3420
Buga	22.0%	20.8%	40.6%	13.7%	2.9%	687
Caldas	22.4%	20.2%	41.1%	15.1%	1.3%	4031
Cali	18.8%	21.1%	46.0%	12.2%	1.9%	13697
Caquetá	25.0%	20.3%	36.9%	15.1%	2.7%	2278
Cartagena	18.4%	20.5%	46.0%	12.6%	2.6%	7633
Cartago	27.0%	19.9%	36.8%	14.2%	2.0%	836
Casanare	22.8%	21.9%	39.3%	15.1%	1.0%	2496
Cauca	22.6%	22.3%	38.6%	13.7%	2.8%	9584
Cesar	23.1%	22.3%	38.2%	14.5%	2.0%	6406
Chocó	26.3%	24.4%	30.1%	15.8%	3.3%	3281
Chía	16.5%	16.1%	54.5%	12.1%	0.8%	1177
Ciénaga	21.0%	22.1%	38.7%	13.8%	4.3%	1036
Cundinamarca	20.4%	19.1%	46.6%	13.0%	0.9%	11702
Córdoba	22.8%	25.2%	33.7%	16.1%	2.2%	10335
Cúcuta	21.7%	20.7%	43.1%	13.6%	0.9%	5930
Dosquebradas	21.2%	26.4%	35.2%	15.2%	2.0%	1309
Duitama	15.4%	18.8%	52.8%	13.0%	0.0%	909
Envigado	16.5%	19.4%	52.1%	10.9%	1.1%	923
Facatativá	17.5%	17.8%	49.7%	13.9%	1.0%	964
Florencia	24.4%	23.5%	34.8%	15.8%	1.5%	1518
Floridablanca	17.1%	16.9%	54.5%	10.1%	1.4%	1777
Fusagasugá	19.2%	18.5%	49.6%	11.5%	1.2%	764
Girardot	22.3%	20.2%	40.1%	16.1%	1.3%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	23.0%	17.7%	47.6%	11.2%	0.4%	1124
Guainía	25.4%	20.3%	35.1%	16.6%	2.6%	453
Guaviare	25.9%	23.7%	34.2%	14.0%	2.1%	699
Huila	24.0%	22.3%	37.4%	14.9%	1.4%	5892
Ibagué	17.7%	21.9%	46.6%	12.4%	1.4%	3696
Ipiales	20.4%	17.9%	49.1%	12.0%	0.6%	945
Itagüí	20.0%	23.1%	42.6%	13.2%	1.2%	1292
Jamundí	19.6%	25.5%	36.8%	16.0%	2.1%	775
La Guajira	20.9%	20.8%	39.3%	15.7%	3.2%	3450
Lorica	20.9%	21.5%	41.1%	13.3%	3.2%	1031
Magangué	25.7%	25.7%	30.0%	15.1%	3.5%	1156
Magdalena	23.2%	22.4%	35.7%	15.1%	3.6%	6947
Maicao	22.9%	27.1%	32.4%	14.9%	2.7%	1721
Malambo	15.6%	18.7%	51.6%	12.1%	2.0%	818
Manizales	19.6%	20.1%	45.8%	13.1%	1.4%	2010
Medellín	21.8%	23.7%	38.0%	14.5%	2.0%	13570
Meta	23.1%	22.2%	38.2%	15.2%	1.2%	4476
Montería	21.5%	23.9%	39.6%	12.6%	2.3%	3934
Mosquera	19.0%	19.2%	48.7%	12.3%	0.9%	992
Nariño	21.5%	19.8%	41.4%	14.3%	3.1%	6221
Neiva	22.0%	20.9%	43.0%	13.0%	1.1%	2784
Norte de Santander	21.5%	19.8%	43.4%	14.0%	1.3%	6459
Palmira	19.7%	22.0%	42.7%	14.4%	1.2%	2054
Pasto	19.5%	20.5%	44.0%	14.5%	1.5%	2532
Pereira	20.1%	20.2%	45.0%	12.3%	2.3%	2984
Piedecuesta	15.3%	19.2%	52.7%	11.3%	1.5%	997
Pitalito	20.8%	22.5%	41.6%	12.9%	2.3%	1195
Popayán	15.8%	22.2%	46.8%	13.6%	1.7%	2036
Putumayo	24.3%	22.6%	37.5%	13.7%	1.8%	3085
Quibdó	23.9%	22.6%	31.7%	18.6%	3.2%	1031
Quindío	21.8%	21.7%	42.0%	12.4%	2.1%	1538
Riohacha	21.9%	22.7%	35.0%	17.7%	2.8%	2216
Rionegro	17.0%	24.2%	43.4%	14.8%	0.7%	765
Risaralda	20.7%	21.6%	38.1%	16.3%	3.2%	2035
Sabaneta	15.7%	17.8%	50.3%	11.2%	5.1%	394
Sahagún	22.3%	29.9%	29.6%	17.3%	0.9%	873
San Andrés	30.3%	23.1%	31.3%	12.9%	2.2%	402
Santa Marta	23.2%	21.5%	40.2%	12.8%	2.4%	4200
Santander	20.0%	20.5%	44.3%	13.9%	1.4%	6185

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	19.2%	23.6%	41.4%	14.5%	1.3%	2353
Soacha	19.8%	20.3%	45.0%	14.1%	0.8%	3935
Sogamoso	19.4%	18.3%	49.9%	11.9%	0.6%	1046
Soledad	17.6%	19.9%	48.6%	11.9%	2.0%	3730
Sucre	23.1%	25.0%	34.2%	14.9%	2.8%	5961
Tolima	23.4%	23.2%	36.3%	15.3%	1.8%	6918
Tuluá	19.1%	21.3%	43.9%	15.0%	0.7%	1463
Tumaco	24.5%	24.2%	29.6%	16.7%	5.0%	2018
Tunja	17.4%	15.9%	53.3%	13.0%	0.4%	1403
Turbo	24.1%	25.9%	36.6%	11.4%	2.1%	1937
Uribia	20.6%	28.9%	31.2%	14.8%	4.5%	1575
Valle del Cauca	22.4%	22.2%	39.2%	14.1%	2.1%	5681
Valledupar	20.4%	19.6%	44.2%	13.3%	2.5%	3914
Vaupés	22.7%	24.4%	27.8%	22.4%	2.8%	353
Vichada	23.9%	27.2%	30.0%	16.7%	2.2%	777
Villavicencio	19.2%	20.9%	46.2%	12.7%	1.1%	3999
Yopal	21.2%	22.7%	40.5%	14.4%	1.3%	1531
Yumbo	22.5%	23.2%	42.0%	9.8%	2.5%	870
Zipaquirá	19.5%	13.3%	55.0%	11.4%	0.7%	963
Colombia	21.0%	21.3%	41.9%	13.9%	2.0%	356850

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 8.

Tres motociclistas participaron en una carrera. La tabla muestra el tiempo que empleó cada uno.

Motociclista	*motociclista 3*	*motociclista 2*	*motociclista 1*
Tiempo	media hora	1 hora	1 hora y media

¿Cuántos minutos tardó el motociclista 2 en llegar a la meta?

A. 30 minutos.
B. 60 minutos.
C. 100 minutos.
D. 120 minutos.

• Estructura

Competencia	Resolución
Componente	Espacial - Métrico
Afirmación	Desarrollar procesos de medición usando patrones e instrumentos estandarizados.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	B

- **Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	31.2%	40.6%	12.2%	10.8%	5.2%	673
Antioquia	25.3%	55.5%	10.0%	6.7%	2.5%	20215
Apartadó	29.2%	49.6%	11.4%	7.3%	2.5%	1148
Arauca	23.1%	61.5%	9.2%	5.6%	0.6%	2390
Armenia	24.8%	59.4%	8.9%	5.2%	1.7%	1622
Atlántico	26.0%	50.5%	9.4%	9.5%	4.6%	4254
Barrancabermeja	24.1%	57.7%	8.8%	7.2%	2.3%	1948
Barranquilla	24.2%	60.1%	7.9%	6.0%	1.8%	8003
Bello	23.4%	61.0%	9.0%	5.1%	1.5%	3172
Bogotá, D.C.	20.3%	65.9%	7.3%	5.2%	1.3%	45988
Bolívar	28.8%	42.4%	13.2%	12.0%	3.5%	8608
Boyacá	22.4%	63.4%	7.8%	5.5%	0.9%	6339
Bucaramanga	19.3%	66.8%	7.1%	6.0%	0.8%	3695
Buenaventura	23.4%	56.8%	8.9%	8.3%	2.6%	3420
Buga	26.2%	54.3%	8.0%	8.7%	2.8%	687
Caldas	24.1%	60.5%	7.9%	6.3%	1.2%	4031
Cali	22.8%	62.1%	7.8%	5.2%	2.0%	13697
Caquetá	24.0%	59.0%	7.8%	6.8%	2.4%	2278
Cartagena	23.1%	56.9%	8.9%	8.2%	2.9%	7633
Cartago	25.5%	56.3%	9.7%	7.1%	1.4%	836
Casanare	24.0%	60.2%	8.6%	6.6%	0.6%	2496
Cauca	22.7%	59.5%	7.7%	7.2%	2.8%	9584
Cesar	25.0%	55.5%	9.5%	8.0%	1.9%	6406
Chocó	25.9%	51.8%	9.6%	9.6%	3.1%	3281
Chía	16.1%	72.0%	5.8%	5.1%	0.9%	1177
Ciénaga	21.2%	54.1%	9.0%	10.8%	4.9%	1036
Cundinamarca	21.8%	64.3%	7.8%	5.3%	0.8%	11702
Córdoba	26.7%	48.9%	11.9%	10.0%	2.6%	10335
Cúcuta	24.2%	60.2%	8.3%	6.4%	0.9%	5930
Dosquebradas	24.7%	59.5%	8.6%	5.3%	1.9%	1309
Duitama	17.3%	72.7%	6.5%	3.2%	0.3%	909
Envigado	16.8%	70.0%	6.9%	5.5%	0.8%	923
Facatativá	19.5%	68.3%	6.4%	4.8%	1.0%	964
Florencia	24.0%	59.8%	8.2%	6.5%	1.5%	1518
Floridablanca	18.2%	69.0%	6.4%	5.5%	0.9%	1777
Fusagasugá	23.6%	65.1%	4.6%	5.1%	1.7%	764
Girardot	27.0%	55.6%	8.9%	7.1%	1.4%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	24.6%	58.5%	8.1%	8.0%	0.8%	1124
Guainía	27.8%	45.9%	10.4%	13.9%	2.0%	453
Guaviare	24.7%	53.4%	10.9%	7.7%	3.3%	699
Huila	25.7%	57.4%	9.9%	5.6%	1.4%	5892
Ibagué	20.3%	64.5%	7.8%	6.0%	1.3%	3696
Ipiales	23.2%	64.9%	6.7%	5.0%	0.3%	945
Itagüí	21.1%	61.8%	9.8%	6.4%	0.9%	1292
Jamundí	27.5%	50.6%	9.9%	9.2%	2.8%	775
La Guajira	23.5%	53.8%	9.2%	10.1%	3.4%	3450
Lorica	29.7%	45.7%	12.1%	9.4%	3.1%	1031
Magangué	29.0%	41.4%	14.2%	11.9%	3.5%	1156
Magdalena	24.9%	51.0%	9.1%	11.2%	3.7%	6947
Maicao	26.6%	48.9%	11.5%	10.3%	2.7%	1721
Malambo	22.9%	60.0%	7.9%	7.1%	2.1%	818
Manizales	22.7%	63.8%	7.8%	4.5%	1.1%	2010
Medellín	23.8%	57.8%	9.5%	6.8%	2.1%	13570
Meta	24.2%	60.3%	7.7%	6.7%	1.1%	4476
Montería	26.9%	50.4%	11.7%	9.1%	1.9%	3934
Mosquera	22.8%	63.4%	7.4%	5.7%	0.7%	992
Nariño	19.9%	64.4%	6.9%	5.6%	3.1%	6221
Neiva	28.4%	55.7%	8.8%	6.0%	1.1%	2784
Norte de Santander	21.2%	65.1%	7.1%	5.5%	1.1%	6459
Palmira	26.8%	56.9%	8.9%	6.3%	1.2%	2054
Pasto	23.9%	63.1%	6.8%	5.2%	1.0%	2532
Pereira	23.5%	62.5%	6.6%	5.2%	2.1%	2984
Piedecuesta	19.0%	66.5%	7.9%	5.4%	1.2%	997
Pitalito	23.2%	59.2%	7.5%	7.9%	2.1%	1195
Popayán	20.2%	65.6%	7.5%	5.3%	1.5%	2036
Putumayo	25.4%	55.5%	9.0%	8.2%	1.9%	3085
Quibdó	29.6%	48.0%	10.6%	8.6%	3.2%	1031
Quindío	24.1%	59.6%	8.0%	6.0%	2.3%	1538
Riohacha	26.5%	51.1%	9.0%	10.3%	3.1%	2216
Rionegro	21.7%	64.4%	8.0%	5.5%	0.4%	765
Risaralda	23.5%	59.8%	7.4%	6.6%	2.7%	2035
Sabaneta	13.5%	71.3%	7.1%	3.8%	4.3%	394
Sahagún	31.4%	47.9%	11.6%	7.7%	1.5%	873
San Andrés	27.4%	48.3%	11.4%	10.4%	2.5%	402
Santa Marta	25.9%	56.4%	8.1%	7.5%	2.1%	4200
Santander	21.8%	62.9%	8.2%	5.8%	1.3%	6185

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	31.7%	47.7%	11.2%	7.6%	1.7%	2353
Soacha	23.4%	62.6%	8.1%	5.0%	0.9%	3935
Sogamoso	19.8%	65.3%	7.1%	7.1%	0.8%	1046
Soledad	21.9%	63.1%	7.3%	6.0%	1.7%	3730
Sucre	27.2%	46.6%	11.4%	11.5%	3.2%	5961
Tolima	25.3%	55.4%	9.8%	7.6%	1.9%	6918
Tuluá	26.2%	59.0%	8.4%	5.3%	1.1%	1463
Tumaco	25.8%	46.7%	11.0%	11.4%	5.2%	2018
Tunja	17.7%	69.1%	7.8%	4.9%	0.4%	1403
Turbo	30.0%	44.3%	12.9%	10.4%	2.4%	1937
Uribia	27.6%	42.2%	11.9%	13.4%	5.0%	1575
Valle del Cauca	24.7%	57.3%	9.3%	6.7%	2.0%	5681
Valledupar	25.5%	56.9%	8.4%	7.0%	2.2%	3914
Vaupés	26.1%	35.4%	13.9%	21.8%	2.8%	353
Vichada	26.9%	46.8%	10.7%	13.1%	2.4%	777
Villavicencio	20.7%	65.3%	7.6%	5.5%	0.9%	3999
Yopal	25.5%	56.0%	11.4%	6.1%	1.0%	1531
Yumbo	26.3%	55.3%	9.3%	6.8%	2.3%	870
Zipaquirá	19.7%	67.5%	7.3%	4.7%	0.8%	963
Colombia	23.7%	58.7%	8.8%	7.0%	2.0%	356850

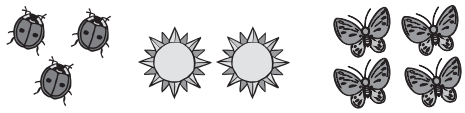
*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 9.

Los niños de grado tercero asignaron figuras distintas a los números 100, 10 y 1, así:

100 *10* *1*

Usando la asignación anterior, un niño dibujó



Dibujo

¿Qué número se representa en el dibujo?

A. 423
B. 342
C. 432
D. 324

• Estructura

Competencia	Razonamiento
Componente	Numérico - Variacional
Afirmación	Establecer conjeturas acerca del sistema de numeración decimal a partir de representaciones pictóricas.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	D

- **Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	11.0%	12.6%	16.2%	54.1%	6.1%	673
Antioquia	10.4%	11.6%	12.0%	63.0%	3.0%	20215
Apartadó	11.4%	12.2%	16.3%	56.4%	3.7%	1148
Arauca	8.3%	11.0%	10.3%	69.4%	1.0%	2390
Armenia	10.7%	11.7%	11.4%	64.2%	2.0%	1622
Atlántico	10.3%	12.7%	13.6%	58.6%	4.7%	4254
Barrancabermeja	8.7%	11.7%	10.1%	67.5%	2.0%	1948
Barranquilla	8.1%	9.1%	10.3%	70.3%	2.1%	8003
Bello	10.8%	10.6%	11.1%	65.2%	2.3%	3172
Bogotá, D.C.	8.3%	8.8%	8.7%	72.6%	1.6%	45988
Bolívar	11.8%	13.3%	16.1%	54.7%	4.0%	8608
Boyacá	8.7%	9.8%	11.3%	69.2%	1.0%	6339
Bucaramanga	7.4%	8.5%	8.7%	73.8%	1.6%	3695
Buenaventura	9.3%	11.2%	9.8%	66.4%	3.2%	3420
Buga	11.2%	11.1%	12.1%	62.4%	3.2%	687
Caldas	8.5%	10.6%	10.5%	68.7%	1.6%	4031
Cali	8.4%	9.8%	8.0%	71.5%	2.4%	13697
Caquetá	8.6%	10.1%	10.5%	67.9%	2.9%	2278
Cartagena	10.0%	9.9%	10.5%	66.7%	2.9%	7633
Cartago	10.4%	12.6%	9.6%	64.7%	2.8%	836
Casanare	10.3%	9.7%	12.3%	66.7%	1.0%	2496
Cauca	8.0%	10.7%	9.6%	68.5%	3.3%	9584
Cesar	10.2%	10.9%	12.6%	63.9%	2.4%	6406
Chocó	9.9%	10.8%	13.9%	61.7%	3.7%	3281
Chía	8.2%	8.0%	9.3%	73.4%	1.0%	1177
Ciénaga	10.7%	10.7%	13.1%	59.8%	5.6%	1036
Cundinamarca	7.6%	9.3%	8.5%	73.6%	1.1%	11702
Córdoba	11.3%	12.6%	14.5%	58.7%	2.9%	10335
Cúcuta	9.5%	10.5%	10.3%	68.6%	1.1%	5930
Dosquebradas	10.7%	9.1%	10.5%	67.5%	2.3%	1309
Duitama	6.7%	7.0%	8.8%	76.8%	0.7%	909
Envigado	7.4%	7.7%	7.8%	76.2%	1.0%	923
Facatativá	6.2%	7.3%	11.0%	74.4%	1.1%	964
Florencia	8.6%	10.3%	11.1%	68.0%	2.0%	1518
Floridablanca	6.5%	7.5%	7.4%	77.4%	1.2%	1777
Fusagasugá	8.6%	8.8%	8.8%	72.0%	1.8%	764
Girardot	7.8%	12.9%	11.3%	65.7%	2.4%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	8.5%	11.7%	11.1%	68.1%	0.5%	1124
Guainía	14.1%	13.7%	19.2%	49.4%	3.5%	453
Guaviare	10.2%	13.0%	11.7%	62.1%	3.0%	699
Huila	9.3%	10.2%	11.4%	67.5%	1.5%	5892
Ibagué	8.8%	8.9%	9.2%	71.6%	1.5%	3696
Ipiales	5.0%	9.3%	9.3%	75.2%	1.2%	945
Itagüí	12.0%	10.8%	11.6%	64.6%	1.0%	1292
Jamundí	8.6%	13.0%	11.0%	64.0%	3.4%	775
La Guajira	9.3%	10.4%	13.1%	63.8%	3.3%	3450
Lorica	10.4%	14.1%	13.1%	58.2%	4.3%	1031
Magangué	12.5%	14.0%	17.5%	51.9%	4.1%	1156
Magdalena	10.3%	11.9%	14.2%	59.4%	4.2%	6947
Maicao	10.8%	12.3%	15.6%	57.5%	3.8%	1721
Malambo	6.6%	8.1%	10.5%	72.1%	2.7%	818
Manizales	8.6%	9.7%	9.1%	71.3%	1.4%	2010
Medellín	11.4%	11.2%	10.8%	64.1%	2.5%	13570
Meta	8.6%	10.5%	11.0%	68.4%	1.5%	4476
Montería	11.2%	12.8%	13.6%	60.1%	2.2%	3934
Mosquera	10.0%	8.4%	8.4%	71.4%	1.9%	992
Nariño	7.0%	8.1%	7.9%	73.3%	3.7%	6221
Neiva	9.8%	10.8%	10.4%	67.7%	1.3%	2784
Norte de Santander	8.1%	9.1%	9.3%	72.3%	1.3%	6459
Palmira	9.9%	10.5%	9.7%	68.5%	1.4%	2054
Pasto	9.6%	8.8%	9.6%	70.7%	1.3%	2532
Pereira	8.2%	9.2%	9.1%	71.0%	2.5%	2984
Piedecuesta	7.4%	6.8%	7.2%	76.1%	2.4%	997
Pitalito	9.0%	11.6%	9.6%	67.1%	2.7%	1195
Popayán	6.6%	8.6%	8.3%	74.7%	1.8%	2036
Putumayo	9.3%	10.5%	11.4%	66.8%	1.9%	3085
Quibdó	8.4%	13.4%	12.2%	62.4%	3.6%	1031
Quindío	9.7%	10.5%	11.4%	66.0%	2.4%	1538
Riohacha	10.7%	12.4%	12.5%	60.7%	3.6%	2216
Rionegro	10.3%	9.4%	9.2%	70.2%	0.9%	765
Risaralda	9.3%	10.1%	10.9%	66.3%	3.3%	2035
Sabaneta	9.9%	6.1%	8.4%	70.6%	5.1%	394
Sahagún	10.9%	11.2%	13.7%	63.0%	1.1%	873
San Andrés	9.2%	10.4%	12.4%	64.7%	3.2%	402
Santa Marta	10.2%	10.8%	11.0%	65.5%	2.5%	4200
Santander	9.0%	10.0%	9.8%	69.6%	1.6%	6185

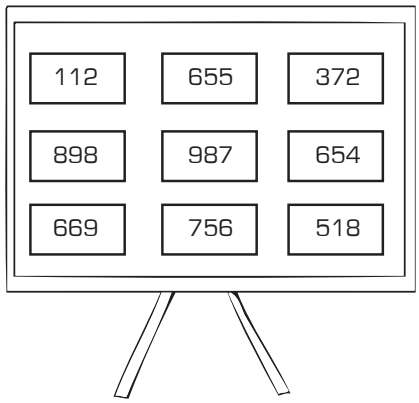
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	11.3%	12.6%	11.5%	62.7%	1.9%	2353
Soacha	8.7%	10.0%	9.3%	70.8%	1.2%	3935
Sogamoso	7.6%	9.6%	10.6%	71.4%	0.9%	1046
Soledad	8.2%	9.0%	9.1%	72.0%	1.8%	3730
Sucre	10.9%	13.7%	16.1%	55.9%	3.4%	5961
Tolima	10.3%	11.5%	11.9%	64.2%	2.0%	6918
Tuluá	10.0%	10.3%	10.0%	68.6%	1.2%	1463
Tumaco	12.2%	12.2%	14.6%	54.9%	6.0%	2018
Tunja	6.5%	7.3%	8.6%	76.7%	0.9%	1403
Turbo	11.2%	14.8%	14.0%	57.7%	2.3%	1937
Uribia	14.2%	14.5%	15.8%	49.7%	5.7%	1575
Valle del Cauca	9.5%	10.1%	9.6%	68.5%	2.4%	5681
Valledupar	9.6%	9.6%	10.5%	68.3%	2.1%	3914
Vaupés	13.0%	15.0%	22.7%	45.3%	4.0%	353
Vichada	11.6%	14.3%	17.5%	53.4%	3.2%	777
Villavicencio	7.7%	9.1%	8.6%	73.4%	1.2%	3999
Yopal	9.3%	12.1%	12.0%	65.4%	1.1%	1531
Yumbo	9.9%	10.9%	12.3%	64.5%	2.4%	870
Zipaquirá	6.9%	9.6%	7.6%	75.0%	1.0%	963
Colombia	9.3%	10.4%	10.8%	67.1%	2.3%	356850

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

- **Pregunta 10.**

A Tomás le ofrecen boletas para una rifa con los siguientes números:



Él quiere una boleta que tenga el dígito 7. ¿En cuál de las opciones, todas las boletas tienen el dígito 7?

A. 112 655 372

B. 655 987 756

C. 372 987 756

D. 112 898 669

- **Estructura**

Competencia	Comunicación
Componente	Aleatorio
Afirmación	Describir características de un conjunto a partir de los datos que lo representan.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	C

- **Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	13.1%	23.3%	51.1%	6.8%	5.6%	673
Antioquia	9.7%	14.5%	68.6%	4.7%	2.4%	20215
Apartadó	12.3%	13.6%	64.3%	7.1%	2.7%	1148
Arauca	11.0%	12.3%	72.4%	3.6%	0.7%	2390
Armenia	10.2%	13.4%	71.6%	3.0%	1.8%	1622
Atlántico	13.3%	15.5%	62.0%	5.9%	3.2%	4254
Barrancabermeja	9.7%	13.2%	71.8%	3.2%	2.1%	1948
Barranquilla	9.7%	12.4%	71.9%	4.4%	1.6%	8003
Bello	8.1%	12.4%	75.2%	2.8%	1.5%	3172
Bogotá, D.C.	6.9%	11.1%	77.9%	2.8%	1.3%	45988
Bolívar	14.1%	17.6%	56.3%	9.0%	3.0%	8608
Boyacá	9.5%	12.8%	72.7%	4.2%	0.8%	6339
Bucaramanga	7.8%	10.1%	78.9%	2.5%	0.8%	3695
Buenaventura	10.2%	13.5%	69.5%	4.8%	2.1%	3420
Buga	9.3%	13.5%	71.8%	2.6%	2.8%	687
Caldas	8.2%	13.7%	72.6%	4.1%	1.5%	4031
Cali	7.3%	12.3%	75.5%	3.2%	1.7%	13697
Caquetá	8.9%	14.0%	70.6%	4.3%	2.2%	2278
Cartagena	10.4%	12.9%	69.1%	5.4%	2.2%	7633
Cartago	10.9%	11.7%	71.5%	4.4%	1.4%	836
Casanare	11.7%	13.6%	69.7%	4.4%	0.6%	2496
Cauca	8.0%	12.7%	72.0%	4.9%	2.5%	9584
Cesar	10.8%	13.7%	67.1%	6.8%	1.6%	6406
Chocó	11.7%	15.3%	62.3%	8.1%	2.6%	3281
Chía	7.1%	9.7%	78.9%	3.2%	1.0%	1177
Ciénaga	11.8%	15.0%	63.0%	5.1%	5.1%	1036
Cundinamarca	8.0%	11.7%	76.4%	3.3%	0.7%	11702
Córdoba	12.9%	15.3%	62.1%	7.6%	2.0%	10335
Cúcuta	10.0%	11.3%	74.9%	3.1%	0.7%	5930
Dosquebradas	8.6%	13.2%	73.8%	2.8%	1.6%	1309
Duitama	5.4%	9.4%	83.3%	1.5%	0.4%	909
Envigado	5.4%	10.4%	81.4%	2.2%	0.7%	923
Facatativá	6.5%	12.9%	76.5%	3.5%	0.6%	964
Florencia	9.6%	14.2%	70.4%	4.7%	1.1%	1518
Floridablanca	6.5%	8.3%	82.2%	2.1%	0.8%	1777
Fusagasugá	7.1%	11.1%	78.4%	2.2%	1.2%	764
Girardot	11.4%	15.5%	66.2%	5.2%	1.6%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	8.9%	11.7%	76.3%	2.6%	0.5%	1124
Guainía	11.3%	21.4%	57.2%	8.2%	2.0%	453
Guaviare	8.6%	15.9%	68.0%	4.7%	2.9%	699
Huila	10.3%	14.7%	69.5%	4.2%	1.4%	5892
Ibagué	9.0%	10.8%	76.0%	3.1%	1.0%	3696
Ipiales	5.7%	10.8%	79.9%	3.3%	0.3%	945
Itagüí	7.1%	11.4%	77.3%	3.3%	0.9%	1292
Jamundí	11.1%	14.3%	67.1%	5.0%	2.5%	775
La Guajira	11.1%	14.0%	65.4%	7.2%	2.3%	3450
Lorica	11.1%	15.3%	62.2%	8.5%	2.9%	1031
Magangué	15.1%	19.8%	53.1%	8.5%	3.5%	1156
Magdalena	12.0%	15.7%	61.7%	7.6%	3.0%	6947
Maicao	14.5%	17.0%	57.8%	8.6%	2.2%	1721
Malambo	9.9%	14.3%	69.8%	4.3%	1.7%	818
Manizales	8.4%	14.5%	73.1%	2.8%	1.2%	2010
Medellín	8.8%	13.9%	71.9%	3.6%	1.8%	13570
Meta	10.0%	14.3%	70.4%	4.3%	1.1%	4476
Montería	12.9%	14.6%	64.4%	6.4%	1.7%	3934
Mosquera	6.6%	12.2%	76.9%	2.9%	1.4%	992
Nariño	7.5%	10.9%	74.8%	4.0%	2.7%	6221
Neiva	10.5%	13.2%	71.6%	4.2%	0.6%	2784
Norte de Santander	8.6%	11.9%	74.5%	4.0%	1.0%	6459
Palmira	9.1%	11.4%	75.5%	2.9%	1.1%	2054
Pasto	7.9%	12.7%	75.9%	2.6%	0.9%	2532
Pereira	7.7%	11.9%	75.4%	2.8%	2.2%	2984
Piedecuesta	7.8%	8.9%	78.7%	3.0%	1.5%	997
Pitalito	10.0%	14.5%	70.2%	3.1%	2.2%	1195
Popayán	7.5%	11.8%	76.2%	2.8%	1.7%	2036
Putumayo	11.0%	14.1%	68.8%	4.6%	1.5%	3085
Quibdó	9.7%	14.9%	64.6%	7.4%	3.4%	1031
Quindío	9.6%	14.0%	70.4%	3.9%	2.1%	1538
Riohacha	12.5%	16.5%	63.0%	5.6%	2.4%	2216
Rionegro	7.8%	11.2%	76.5%	4.1%	0.4%	765
Risaralda	9.1%	14.1%	70.2%	3.8%	2.8%	2035
Sabaneta	4.1%	8.6%	79.9%	3.3%	4.1%	394
Sahagún	13.2%	18.1%	62.3%	5.6%	0.8%	873
San Andrés	14.4%	13.2%	65.7%	4.7%	2.0%	402
Santa Marta	9.6%	14.8%	69.3%	4.4%	2.0%	4200
Santander	9.6%	12.1%	73.1%	4.1%	1.2%	6185

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	11.9%	14.5%	67.4%	5.0%	1.1%	2353
Soacha	7.9%	11.8%	76.5%	3.0%	0.8%	3935
Sogamoso	7.6%	8.6%	79.3%	4.0%	0.6%	1046
Soledad	9.0%	12.4%	73.2%	4.1%	1.3%	3730
Sucre	14.2%	16.3%	59.3%	7.9%	2.4%	5961
Tolima	11.2%	14.9%	67.6%	4.9%	1.4%	6918
Tuluá	8.7%	14.6%	73.2%	2.7%	0.8%	1463
Tumaco	13.1%	15.3%	58.6%	8.2%	4.9%	2018
Tunja	7.9%	9.6%	79.2%	2.9%	0.4%	1403
Turbo	14.7%	18.2%	58.4%	6.8%	1.8%	1937
Uribia	17.2%	19.0%	46.9%	12.4%	4.4%	1575
Valle del Cauca	9.4%	14.5%	70.4%	4.2%	1.5%	5681
Valledupar	10.0%	12.4%	70.8%	4.9%	1.8%	3914
Vaupés	11.6%	22.4%	48.7%	13.0%	4.2%	353
Vichada	15.3%	19.4%	55.3%	7.9%	2.1%	777
Villavicencio	7.9%	11.6%	76.5%	3.3%	0.7%	3999
Yopal	9.8%	13.5%	71.8%	3.6%	1.3%	1531
Yumbo	7.6%	13.2%	73.6%	3.6%	2.1%	870
Zipaquirá	5.9%	10.1%	81.1%	2.5%	0.4%	963
Colombia	9.5%	13.2%	71.1%	4.5%	1.7%	356850

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 11.

Observa el turno que le corresponde a cada paciente, según el orden de llegada a un centro médico.

Al paciente 1 le corresponde el

Al paciente 2 le corresponde el

Al paciente 3 le corresponde el

¿A cuál paciente le corresponde el

?

A. Al paciente 4.
B. Al paciente 5.
C. Al paciente 10.
D. Al paciente 20.

• Estructura

Competencia	Comunicación
Componente	Numérico - Variacional
Afirmación	Construir y describir secuencias numéricas y geométricas.
Nivel de desempeño	Avanzado
Respuesta Correcta	B

- **Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	18.3%	27.0%	37.7%	11.7%	5.2%	673
Antioquia	20.9%	39.1%	30.2%	7.3%	2.5%	20215
Apartadó	21.8%	37.6%	30.4%	7.4%	2.8%	1148
Arauca	19.2%	43.8%	28.7%	7.4%	0.9%	2390
Armenia	21.1%	46.4%	25.6%	5.1%	1.8%	1622
Atlántico	19.6%	39.4%	27.3%	9.8%	4.0%	4254
Barrancabermeja	20.0%	46.4%	25.3%	6.9%	1.5%	1948
Barranquilla	18.3%	50.2%	23.1%	6.5%	2.0%	8003
Bello	22.6%	46.4%	24.3%	4.9%	1.7%	3172
Bogotá, D.C.	20.1%	53.6%	20.9%	4.1%	1.4%	45988
Bolívar	20.4%	33.3%	31.2%	11.8%	3.4%	8608
Boyacá	19.2%	45.6%	27.6%	6.6%	0.9%	6339
Bucaramanga	18.2%	55.4%	21.1%	4.5%	0.8%	3695
Buenaventura	18.7%	43.7%	26.9%	8.0%	2.6%	3420
Buga	23.9%	42.2%	25.6%	5.8%	2.5%	687
Caldas	20.6%	43.0%	28.7%	6.2%	1.5%	4031
Cali	19.8%	48.9%	24.1%	5.3%	1.9%	13697
Caquetá	19.2%	37.8%	32.2%	8.3%	2.6%	2278
Cartagena	17.2%	46.8%	23.7%	9.8%	2.6%	7633
Cartago	20.0%	48.3%	25.0%	5.1%	1.6%	836
Casanare	22.0%	41.1%	29.4%	6.6%	0.9%	2496
Cauca	16.8%	43.9%	27.8%	8.6%	2.9%	9584
Cesar	19.5%	40.3%	29.2%	9.2%	1.8%	6406
Chocó	18.2%	36.4%	31.1%	11.3%	3.1%	3281
Chía	19.0%	54.0%	20.6%	5.5%	0.9%	1177
Ciénaga	17.4%	40.0%	29.0%	9.6%	4.2%	1036
Cundinamarca	19.1%	49.6%	25.2%	5.2%	0.9%	11702
Córdoba	19.5%	36.3%	30.7%	11.0%	2.5%	10335
Cúcuta	21.2%	47.9%	25.0%	5.1%	0.7%	5930
Dosquebradas	21.7%	42.4%	30.0%	3.7%	2.2%	1309
Duitama	16.5%	58.5%	20.0%	4.7%	0.2%	909
Envigado	18.0%	57.9%	19.0%	4.6%	0.7%	923
Facatativá	17.7%	53.6%	24.4%	3.4%	0.8%	964
Florencia	22.6%	43.3%	26.6%	6.6%	0.9%	1518
Floridablanca	18.9%	59.6%	17.4%	3.2%	1.0%	1777
Fusagasugá	20.4%	50.3%	23.3%	4.6%	1.4%	764
Girardot	19.2%	44.1%	27.0%	8.1%	1.7%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	20.0%	51.7%	22.4%	5.2%	0.6%	1124
Guainía	19.9%	35.1%	28.3%	13.5%	3.3%	453
Guaviare	20.5%	36.5%	33.2%	7.7%	2.1%	699
Huila	20.7%	39.6%	31.1%	7.4%	1.2%	5892
Ibagué	19.7%	50.8%	22.6%	5.7%	1.1%	3696
Ipiales	19.9%	45.7%	27.3%	6.7%	0.4%	945
Itagüí	23.5%	46.7%	24.1%	4.9%	0.8%	1292
Jamundí	20.5%	41.0%	27.0%	8.8%	2.7%	775
La Guajira	16.4%	41.2%	28.7%	10.8%	2.9%	3450
Lorica	19.4%	38.3%	27.7%	11.9%	2.6%	1031
Magangué	20.4%	29.8%	33.2%	13.3%	3.3%	1156
Magdalena	17.5%	37.7%	29.6%	11.9%	3.3%	6947
Maicao	18.0%	36.5%	31.2%	11.6%	2.6%	1721
Malambo	19.4%	46.1%	24.4%	8.2%	1.8%	818
Manizales	20.9%	50.7%	22.1%	4.8%	1.4%	2010
Medellín	22.6%	43.4%	26.7%	5.4%	2.0%	13570
Meta	21.8%	42.0%	28.9%	6.0%	1.3%	4476
Montería	21.5%	39.3%	28.2%	9.3%	1.8%	3934
Mosquera	21.4%	50.1%	21.0%	6.3%	1.3%	992
Nariño	17.8%	46.5%	24.8%	8.0%	2.8%	6221
Neiva	21.3%	44.8%	27.3%	5.7%	0.9%	2784
Norte de Santander	19.2%	47.2%	27.0%	5.5%	1.0%	6459
Palmira	20.9%	49.2%	23.1%	5.5%	1.3%	2054
Pasto	22.9%	47.1%	24.4%	4.5%	1.0%	2532
Pereira	17.7%	50.9%	24.6%	4.5%	2.3%	2984
Piedecuesta	18.4%	54.3%	21.1%	5.0%	1.3%	997
Pitalito	20.0%	42.3%	29.3%	6.2%	2.2%	1195
Popayán	17.5%	52.0%	23.9%	5.2%	1.4%	2036
Putumayo	21.2%	39.6%	30.1%	7.3%	1.8%	3085
Quibdó	24.4%	37.3%	26.1%	8.7%	3.4%	1031
Quindío	22.5%	43.7%	25.7%	5.8%	2.3%	1538
Riohacha	17.6%	41.9%	28.9%	9.0%	2.6%	2216
Rionegro	18.6%	54.9%	23.5%	2.6%	0.4%	765
Risaralda	20.3%	40.1%	28.2%	8.3%	3.1%	2035
Sabaneta	16.2%	51.8%	18.8%	8.6%	4.6%	394
Sahagún	18.8%	38.9%	31.4%	10.0%	0.9%	873
San Andrés	23.1%	42.3%	23.9%	8.2%	2.5%	402
Santa Marta	20.0%	43.0%	28.1%	7.2%	1.8%	4200
Santander	18.5%	46.8%	26.8%	6.7%	1.2%	6185

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	20.2%	41.4%	28.9%	8.4%	1.1%	2353
Soacha	22.9%	48.6%	23.4%	4.3%	0.8%	3935
Sogamoso	17.6%	54.4%	22.2%	5.2%	0.7%	1046
Soledad	18.8%	52.1%	22.0%	5.4%	1.7%	3730
Sucre	18.1%	35.5%	32.2%	11.7%	2.5%	5961
Tolima	20.6%	38.8%	30.5%	8.4%	1.6%	6918
Tuluá	17.2%	50.5%	25.9%	5.1%	1.4%	1463
Tumaco	18.6%	37.3%	29.2%	10.3%	4.6%	2018
Tunja	15.4%	59.2%	21.2%	3.8%	0.4%	1403
Turbo	20.8%	34.5%	31.1%	11.7%	1.9%	1937
Uribia	18.7%	31.9%	29.5%	15.1%	4.8%	1575
Valle del Cauca	21.8%	41.5%	28.6%	6.4%	1.8%	5681
Valledupar	17.3%	48.0%	25.4%	7.2%	2.1%	3914
Vaupés	25.5%	18.4%	31.7%	19.8%	4.5%	353
Vichada	22.7%	28.8%	33.1%	13.3%	2.2%	777
Villavicencio	20.4%	50.5%	23.9%	4.4%	0.8%	3999
Yopal	21.0%	45.6%	26.6%	5.8%	1.0%	1531
Yumbo	19.9%	44.4%	27.9%	5.9%	2.0%	870
Zipaquirá	17.0%	57.2%	19.8%	5.3%	0.6%	963
Colombia	19.8%	45.1%	26.3%	7.0%	1.9%	356850

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

- **Pregunta 12.**

Observa la lista de estudiantes que muestra la tabla.

Lista de estudiantes	
Número	***Nombre y apellido***
1	Mario Álvarez
2	Tomás Cala
3	Tomás Díaz
4	Tomás Flores
5	Tomás Pérez
6	Tomás Ramos
7	Juan Rojas
8	Luis Salas
9	Mauricio Sotelo
10	Juan Vega

Tabla

Al elegir cualquier número de la lista y luego leer el nombre del estudiante, es más probable que el nombre sea

A. Juan.

B. Mario.

C. Tomás.

D. Mauricio.

• Estructura

Competencia	Resolución
Componente	Aleatorio
Afirmación	Resolver situaciones que requieren estimar grados de posibilidad de ocurrencia de eventos.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	C

• Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	18.9%	15.3%	43.7%	16.6%	5.5%	673
Antioquia	19.3%	13.1%	54.2%	10.7%	2.7%	20215
Apartadó	18.3%	13.4%	54.7%	10.9%	2.7%	1148
Arauca	18.6%	12.3%	56.4%	11.0%	1.7%	2390
Armenia	20.0%	13.0%	55.1%	10.4%	1.5%	1622
Atlántico	19.2%	13.5%	52.7%	10.6%	4.0%	4254
Barrancabermeja	17.7%	12.6%	59.3%	8.6%	1.8%	1948
Barranquilla	15.9%	11.7%	62.1%	8.2%	2.0%	8003
Bello	17.9%	13.0%	59.7%	7.6%	1.8%	3172
Bogotá, D.C.	15.6%	12.4%	62.7%	7.9%	1.5%	45988
Bolívar	20.3%	14.6%	48.5%	13.3%	3.4%	8608
Boyacá	21.7%	12.9%	53.1%	11.0%	1.3%	6339
Bucaramanga	16.4%	11.5%	62.9%	8.1%	1.0%	3695
Buenaventura	17.9%	12.3%	57.4%	9.9%	2.6%	3420
Buga	17.0%	13.2%	56.2%	10.9%	2.6%	687
Caldas	17.9%	12.0%	58.6%	9.9%	1.7%	4031
Cali	17.0%	12.1%	61.2%	7.6%	2.1%	13697
Caquetá	21.1%	12.9%	52.3%	11.1%	2.5%	2278
Cartagena	14.7%	11.8%	62.3%	8.6%	2.6%	7633
Cartago	19.9%	12.7%	56.0%	9.9%	1.6%	836
Casanare	22.7%	13.2%	52.0%	11.0%	1.2%	2496
Cauca	17.3%	11.3%	57.0%	11.3%	3.1%	9584
Cesar	17.6%	12.7%	57.5%	10.4%	1.8%	6406
Chocó	16.4%	13.6%	55.3%	11.8%	2.9%	3281
Chía	15.0%	15.4%	62.8%	6.1%	0.7%	1177

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Ciénaga	18.5%	13.0%	52.0%	12.1%	4.3%	1036
Cundinamarca	18.4%	12.6%	58.4%	9.6%	1.0%	11702
Córdoba	17.9%	13.9%	52.8%	12.8%	2.6%	10335
Cúcuta	20.7%	13.9%	55.0%	9.4%	0.9%	5930
Dosquebradas	16.3%	14.4%	57.8%	9.4%	2.1%	1309
Duitama	17.2%	12.9%	61.8%	7.9%	0.2%	909
Envigado	11.7%	11.7%	68.9%	7.2%	0.5%	923
Facatativá	17.2%	10.9%	61.1%	9.9%	0.9%	964
Florencia	16.8%	13.6%	58.0%	10.1%	1.4%	1518
Floridablanca	15.3%	12.4%	64.1%	7.3%	1.0%	1777
Fusagasugá	18.6%	11.8%	60.3%	7.7%	1.6%	764
Girardot	20.1%	15.3%	54.0%	8.6%	2.1%	708
Girón	17.3%	13.6%	58.5%	10.0%	0.7%	1124
Guainía	17.9%	14.6%	51.4%	13.5%	2.6%	453
Guaviare	18.6%	13.9%	52.1%	13.4%	2.0%	699
Huila	19.9%	13.1%	52.9%	12.6%	1.6%	5892
Ibagué	17.1%	11.7%	61.1%	8.7%	1.3%	3696
Ipiales	18.7%	14.0%	56.4%	10.3%	0.6%	945
Itagüí	20.3%	14.8%	57.1%	7.1%	0.7%	1292
Jamundí	19.2%	13.2%	53.8%	11.2%	2.6%	775
La Guajira	16.3%	14.4%	55.5%	10.8%	3.0%	3450
Lorica	19.8%	13.8%	50.8%	12.1%	3.5%	1031
Magangué	21.1%	15.4%	47.8%	12.0%	3.7%	1156
Magdalena	17.8%	13.0%	54.3%	11.5%	3.4%	6947
Maicao	22.1%	14.6%	48.4%	12.0%	2.8%	1721
Malambo	14.1%	9.3%	65.2%	8.6%	2.9%	818
Manizales	16.7%	13.1%	59.5%	9.4%	1.3%	2010
Medellín	17.0%	13.5%	57.5%	9.7%	2.3%	13570
Meta	20.7%	13.2%	54.1%	10.8%	1.2%	4476
Montería	18.9%	15.6%	52.5%	10.9%	2.1%	3934
Mosquera	16.2%	14.6%	58.2%	9.6%	1.4%	992
Nariño	18.6%	10.9%	58.0%	9.1%	3.4%	6221
Neiva	19.7%	13.7%	55.9%	9.4%	1.3%	2784
Norte de Santander	19.3%	12.5%	57.7%	9.4%	1.1%	6459
Palmira	20.5%	12.2%	56.1%	9.6%	1.5%	2054
Pasto	21.6%	14.3%	54.5%	8.5%	1.1%	2532
Pereira	15.4%	11.8%	61.0%	9.2%	2.7%	2984
Piedecuesta	16.6%	12.2%	59.5%	10.1%	1.5%	997
Pitalito	19.7%	11.6%	53.1%	13.5%	2.2%	1195

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Popayán	15.0%	13.2%	60.2%	9.9%	1.8%	2036
Putumayo	21.1%	14.0%	51.2%	11.9%	1.8%	3085
Quibdó	20.3%	15.0%	50.7%	10.4%	3.6%	1031
Quindío	19.4%	11.8%	56.3%	9.8%	2.7%	1538
Riohacha	16.4%	14.5%	56.1%	10.1%	2.8%	2216
Rionegro	15.0%	12.9%	63.7%	7.7%	0.7%	765
Risaralda	17.7%	12.0%	57.8%	9.6%	2.9%	2035
Sabaneta	18.8%	14.0%	55.1%	7.9%	4.3%	394
Sahagún	18.1%	13.4%	52.9%	14.7%	0.9%	873
San Andrés	15.4%	20.1%	52.7%	9.0%	2.7%	402
Santa Marta	19.3%	12.2%	57.1%	9.0%	2.5%	4200
Santander	20.0%	12.1%	56.9%	9.7%	1.2%	6185
Sincelejo	17.6%	13.3%	56.7%	10.8%	1.6%	2353
Soacha	17.0%	13.7%	59.2%	9.0%	1.2%	3935
Sogamoso	19.6%	12.6%	59.1%	7.9%	0.8%	1046
Soledad	16.1%	10.3%	64.8%	7.0%	1.7%	3730
Sucre	19.5%	14.2%	50.9%	12.6%	2.7%	5961
Tolima	20.3%	13.8%	52.4%	11.7%	1.8%	6918
Tuluá	19.1%	12.2%	58.4%	9.5%	0.9%	1463
Tumaco	19.6%	13.6%	47.9%	13.5%	5.4%	2018
Tunja	17.7%	12.7%	60.2%	8.6%	0.7%	1403
Turbo	21.4%	15.2%	48.7%	12.4%	2.4%	1937
Uribia	20.4%	20.3%	39.7%	14.5%	5.1%	1575
Valle del Cauca	20.3%	13.3%	54.4%	10.0%	2.0%	5681
Valledupar	16.3%	10.8%	61.1%	9.5%	2.3%	3914
Vaupés	24.9%	19.3%	35.1%	17.0%	3.7%	353
Vichada	21.0%	17.1%	46.8%	13.0%	2.1%	777
Villavicencio	18.0%	13.4%	59.1%	8.3%	1.2%	3999
Yopal	22.3%	14.8%	51.9%	9.5%	1.6%	1531
Yumbo	17.5%	13.6%	56.6%	10.0%	2.4%	870
Zipaquirá	14.8%	9.7%	67.3%	7.8%	0.4%	963
Colombia	18.0%	12.9%	57.1%	9.9%	2.1%	356850

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 13.

En un taller había 9 tuercas sobre una mesa y de ellas se utilizaron 3 tuercas para asegurar una lámina.

¿Cuántas tuercas quedan sobre la mesa?

A. 6 tuercas.

B. 7 tuercas.

C. 11 tuercas.

D. 12 tuercas.

• Estructura

Competencia	Resolución
Componente	Numérico - Variacional
Afirmación	Resolver problemas aditivos rutinarios de composición y transformación e interpretar condiciones necesarias para su solución.
Nivel de desempeño	Mínimo
Respuesta Correcta	A

- **Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	54.2%	13.1%	6.8%	20.1%	5.8%	673
Antioquia	75.9%	7.5%	4.1%	9.9%	2.7%	20215
Apartadó	73.2%	7.5%	5.3%	10.4%	3.7%	1148
Arauca	77.5%	6.2%	3.6%	11.5%	1.1%	2390
Armenia	76.6%	8.0%	3.4%	10.1%	1.8%	1622
Atlántico	69.3%	7.8%	5.8%	12.9%	4.3%	4254
Barrancabermeja	74.8%	6.7%	4.0%	12.8%	1.7%	1948
Barranquilla	78.0%	6.5%	3.1%	10.3%	2.0%	8003
Bello	80.6%	7.5%	3.2%	6.9%	1.7%	3172
Bogotá, D.C.	82.8%	5.9%	2.3%	7.5%	1.5%	45988
Bolívar	62.8%	9.2%	7.4%	16.9%	3.7%	8608
Boyacá	77.8%	7.5%	3.5%	10.2%	0.9%	6339
Bucaramanga	82.8%	5.9%	2.1%	8.4%	0.8%	3695
Buenaventura	75.1%	6.7%	5.1%	10.2%	2.9%	3420
Buga	72.3%	8.0%	3.8%	12.7%	3.2%	687
Caldas	79.0%	6.5%	3.1%	9.8%	1.7%	4031
Cali	79.9%	7.0%	2.5%	8.5%	2.1%	13697
Caquetá	76.6%	6.4%	3.1%	11.1%	2.8%	2278
Cartagena	74.9%	7.5%	4.2%	10.7%	2.6%	7633
Cartago	78.6%	6.9%	2.4%	10.4%	1.7%	836
Casanare	75.6%	7.7%	4.4%	11.1%	1.3%	2496
Cauca	76.2%	7.0%	3.8%	10.1%	2.9%	9584
Cesar	75.0%	7.1%	4.4%	11.5%	2.0%	6406
Chocó	66.1%	10.1%	6.7%	13.7%	3.4%	3281
Chía	84.1%	5.9%	1.9%	7.4%	0.7%	1177
Ciénaga	70.8%	7.0%	5.2%	11.9%	5.0%	1036
Cundinamarca	81.4%	6.0%	2.7%	8.8%	1.0%	11702
Córdoba	66.8%	9.8%	6.0%	14.9%	2.6%	10335
Cúcuta	76.5%	6.7%	3.4%	12.5%	0.9%	5930
Dosquebradas	82.2%	6.0%	2.6%	7.2%	2.1%	1309
Duitama	84.9%	5.5%	1.9%	7.6%	0.1%	909
Envigado	86.6%	6.7%	2.2%	3.6%	1.0%	923
Facatativá	82.2%	6.2%	2.2%	8.9%	0.5%	964
Florencia	78.1%	6.5%	3.8%	10.1%	1.6%	1518
Floridablanca	82.6%	5.6%	2.6%	8.4%	0.8%	1777
Fusagasugá	78.3%	5.6%	2.6%	11.6%	1.8%	764
Girardot	73.2%	9.3%	5.4%	10.2%	2.0%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	81.3%	5.2%	2.8%	10.0%	0.6%	1124
Guainía	62.3%	7.9%	8.4%	19.6%	1.8%	453
Guaviare	72.5%	10.7%	4.0%	10.3%	2.4%	699
Huila	78.1%	6.8%	3.3%	10.6%	1.3%	5892
Ibagué	79.9%	6.8%	2.8%	9.2%	1.4%	3696
Ipiales	78.2%	6.1%	2.3%	12.5%	0.8%	945
Itagüí	78.5%	8.4%	4.1%	7.9%	1.2%	1292
Jamundí	73.0%	8.3%	4.6%	10.7%	3.4%	775
La Guajira	67.5%	8.3%	6.6%	14.2%	3.3%	3450
Lorica	67.7%	10.2%	6.0%	12.9%	3.2%	1031
Magangué	58.2%	11.9%	6.3%	19.1%	4.4%	1156
Magdalena	68.6%	8.4%	5.9%	13.4%	3.7%	6947
Maicao	63.9%	8.8%	7.8%	16.1%	3.4%	1721
Malambo	80.6%	5.5%	3.2%	9.0%	1.7%	818
Manizales	81.4%	6.3%	2.9%	7.7%	1.7%	2010
Medellín	79.1%	7.2%	3.5%	7.9%	2.3%	13570
Meta	77.3%	7.0%	3.6%	10.9%	1.2%	4476
Montería	68.3%	9.6%	5.1%	14.9%	2.1%	3934
Mosquera	82.4%	6.7%	3.1%	6.3%	1.6%	992
Nariño	78.7%	6.0%	3.6%	8.5%	3.1%	6221
Neiva	75.9%	7.0%	2.9%	13.0%	1.2%	2784
Norte de Santander	80.0%	5.7%	2.8%	10.6%	1.0%	6459
Palmira	76.4%	7.3%	2.9%	12.3%	1.2%	2054
Pasto	79.6%	6.1%	2.8%	10.1%	1.5%	2532
Pereira	81.2%	5.4%	2.6%	8.1%	2.6%	2984
Piedecuesta	78.0%	6.6%	3.3%	10.4%	1.6%	997
Pitalito	75.5%	7.1%	2.7%	12.6%	2.1%	1195
Popayán	80.5%	5.6%	2.8%	9.3%	1.9%	2036
Putumayo	71.4%	7.6%	4.2%	15.0%	1.8%	3085
Quibdó	70.3%	8.0%	5.2%	13.0%	3.5%	1031
Quindío	76.8%	7.5%	4.0%	9.2%	2.5%	1538
Riohacha	72.0%	6.5%	6.2%	12.0%	3.2%	2216
Rionegro	80.3%	7.2%	2.1%	9.5%	0.9%	765
Risaralda	75.2%	7.7%	3.7%	10.1%	3.3%	2035
Sabaneta	84.0%	5.1%	1.3%	4.8%	4.8%	394
Sahagún	68.4%	8.2%	4.7%	17.3%	1.4%	873
San Andrés	66.7%	9.0%	7.0%	14.9%	2.5%	402
Santa Marta	76.4%	7.3%	4.3%	10.0%	2.0%	4200
Santander	77.4%	7.0%	3.5%	11.0%	1.2%	6185

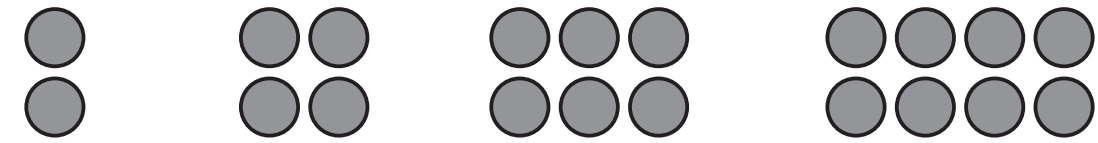
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	72.6%	8.3%	3.8%	13.6%	1.7%	2353
Soacha	81.6%	6.3%	2.8%	8.7%	0.7%	3935
Sogamoso	79.9%	7.4%	3.3%	8.9%	0.6%	1046
Soledad	78.8%	7.2%	3.1%	9.3%	1.7%	3730
Sucre	64.3%	9.8%	6.9%	15.6%	3.4%	5961
Tolima	73.8%	8.3%	4.6%	11.6%	1.8%	6918
Tuluá	78.8%	6.0%	3.1%	10.6%	1.5%	1463
Tumaco	65.6%	10.2%	7.0%	11.7%	5.5%	2018
Tunja	83.3%	6.1%	2.1%	8.0%	0.5%	1403
Turbo	67.4%	9.4%	5.8%	14.8%	2.6%	1937
Uribia	51.6%	14.1%	9.3%	19.9%	5.1%	1575
Valle del Cauca	76.3%	7.4%	3.4%	11.0%	2.0%	5681
Valledupar	76.5%	7.6%	3.9%	10.0%	1.9%	3914
Vaupés	41.9%	15.3%	9.6%	29.2%	4.0%	353
Vichada	57.7%	9.4%	5.8%	24.5%	2.7%	777
Villavicencio	81.0%	6.1%	2.3%	9.5%	1.1%	3999
Yopal	76.4%	7.8%	3.7%	11.0%	1.2%	1531
Yumbo	79.2%	7.0%	3.3%	8.0%	2.4%	870
Zipaquirá	83.8%	3.9%	2.7%	8.6%	0.9%	963
Colombia	76.4%	7.2%	3.8%	10.5%	2.1%	356850

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 14.

Observa la figura en cada posición.



Posición 1 Posición 2 Posición 3 Posición 4

El cambio que se hizo a la figura de la posición 3 para obtener la de la posición 4 fue

A. quitar 4 círculos.

B. agregar 2 círculos.

C. quitar 2 círculos.

D. agregar 4 círculos.

• Estructura

Competencia	Razonamiento
Componente	Numérico - Variacional
Afirmación	Establecer conjeturas acerca de regularidades en contextos geométricos y numéricos.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	B

- **Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	15.2%	35.2%	22.9%	21.2%	5.5%	673
Antioquia	12.8%	51.9%	17.5%	14.9%	3.0%	20215
Apartadó	14.6%	49.3%	17.4%	14.5%	4.1%	1148
Arauca	12.3%	53.1%	18.8%	14.4%	1.4%	2390
Armenia	12.7%	53.3%	18.5%	13.2%	2.3%	1622
Atlántico	14.5%	49.4%	14.6%	17.1%	4.4%	4254
Barrancabermeja	12.9%	55.3%	16.7%	12.6%	2.4%	1948
Barranquilla	10.8%	58.7%	15.5%	13.1%	1.9%	8003
Bello	11.4%	59.0%	16.0%	11.8%	1.8%	3172
Bogotá, D.C.	8.8%	63.1%	16.4%	10.0%	1.7%	45988
Bolívar	15.9%	41.3%	17.7%	20.9%	4.2%	8608
Boyacá	10.3%	56.9%	17.6%	13.8%	1.3%	6339
Bucaramanga	8.4%	62.1%	17.5%	10.7%	1.3%	3695
Buenaventura	12.7%	55.1%	14.9%	13.9%	3.4%	3420
Buga	13.1%	52.1%	17.0%	14.0%	3.8%	687
Caldas	11.7%	57.0%	17.0%	12.5%	1.9%	4031
Cali	10.9%	59.7%	15.9%	11.3%	2.3%	13697
Caquetá	12.7%	55.7%	14.6%	14.4%	2.6%	2278
Cartagena	12.2%	56.0%	14.7%	14.5%	2.6%	7633
Cartago	11.6%	52.2%	19.0%	15.0%	2.3%	836
Casanare	13.0%	50.9%	19.4%	15.3%	1.4%	2496
Cauca	11.7%	55.4%	15.2%	14.3%	3.4%	9584
Cesar	13.6%	50.3%	17.4%	16.2%	2.5%	6406
Chocó	12.6%	51.1%	13.1%	19.2%	3.9%	3281
Chía	7.7%	65.6%	17.4%	8.5%	0.8%	1177
Ciénaga	13.3%	49.3%	14.7%	17.3%	5.4%	1036
Cundinamarca	9.4%	59.1%	17.8%	12.5%	1.2%	11702
Córdoba	13.4%	46.3%	17.5%	19.9%	2.9%	10335
Cúcuta	11.5%	56.5%	18.6%	12.3%	1.1%	5930
Dosquebradas	9.8%	56.6%	19.6%	11.6%	2.4%	1309
Duitama	5.8%	70.7%	15.4%	7.9%	0.1%	909
Envigado	6.7%	67.8%	14.5%	9.4%	1.5%	923
Facatativá	9.8%	60.1%	19.5%	9.9%	0.8%	964
Florencia	13.0%	51.2%	19.1%	15.0%	1.6%	1518
Floridablanca	7.1%	66.9%	16.1%	8.6%	1.4%	1777
Fusagasugá	8.1%	59.9%	17.9%	12.2%	1.8%	764
Girardot	13.4%	51.6%	17.2%	15.4%	2.4%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	8.5%	60.6%	16.5%	13.4%	1.1%	1124
Guainía	16.1%	40.0%	18.5%	21.9%	3.5%	453
Guaviare	15.0%	48.6%	17.9%	15.9%	2.6%	699
Huila	12.0%	52.6%	18.0%	15.6%	1.7%	5892
Ibagué	10.1%	60.8%	17.0%	10.7%	1.4%	3696
Ipiales	10.3%	60.3%	18.0%	10.3%	1.2%	945
Itagüí	11.7%	56.9%	19.8%	10.3%	1.3%	1292
Jamundí	15.0%	48.5%	18.6%	14.7%	3.2%	775
La Guajira	13.3%	51.5%	14.4%	17.2%	3.7%	3450
Lorica	15.1%	47.5%	16.1%	18.3%	2.9%	1031
Magangué	16.0%	37.6%	20.2%	21.7%	4.4%	1156
Magdalena	13.6%	48.4%	16.1%	18.1%	3.9%	6947
Maicao	16.0%	43.4%	18.7%	18.9%	3.0%	1721
Malambo	9.0%	59.9%	12.5%	16.4%	2.2%	818
Manizales	11.8%	57.6%	18.1%	10.9%	1.6%	2010
Medellín	12.1%	54.1%	18.7%	12.7%	2.5%	13570
Meta	11.7%	53.1%	19.7%	14.2%	1.4%	4476
Montería	14.6%	46.6%	18.7%	17.6%	2.5%	3934
Mosquera	10.6%	62.0%	15.1%	10.4%	1.9%	992
Nariño	9.3%	59.5%	15.2%	12.5%	3.5%	6221
Neiva	12.1%	53.9%	18.4%	14.0%	1.6%	2784
Norte de Santander	10.8%	58.1%	17.2%	12.8%	1.1%	6459
Palmira	12.0%	56.3%	17.6%	12.8%	1.4%	2054
Pasto	10.0%	59.2%	17.0%	12.7%	1.2%	2532
Pereira	10.6%	59.2%	15.8%	11.4%	3.0%	2984
Piedecuesta	8.4%	61.1%	17.3%	11.4%	1.8%	997
Pitalito	12.2%	54.4%	17.2%	13.4%	2.8%	1195
Popayán	9.9%	59.1%	17.8%	11.2%	2.0%	2036
Putumayo	13.5%	50.0%	19.0%	15.8%	1.7%	3085
Quibdó	12.3%	50.0%	15.8%	17.8%	4.1%	1031
Quindío	13.1%	54.2%	17.3%	13.1%	2.3%	1538
Riohacha	13.9%	51.9%	14.9%	15.9%	3.5%	2216
Rionegro	10.3%	60.0%	19.1%	10.1%	0.5%	765
Risaralda	11.3%	52.6%	18.9%	13.7%	3.5%	2035
Sabaneta	6.6%	65.2%	15.7%	7.4%	5.1%	394
Sahagún	12.6%	45.1%	19.9%	20.6%	1.7%	873
San Andrés	13.9%	46.3%	18.4%	18.4%	3.0%	402
Santa Marta	13.0%	53.4%	15.9%	15.2%	2.5%	4200
Santander	10.9%	56.9%	17.1%	13.6%	1.5%	6185

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	14.2%	48.5%	18.7%	16.5%	2.0%	2353
Soacha	10.5%	59.0%	18.4%	11.1%	1.0%	3935
Sogamoso	9.6%	61.5%	16.7%	11.6%	0.7%	1046
Soledad	9.4%	62.1%	14.9%	11.7%	1.8%	3730
Sucre	15.7%	44.9%	16.4%	19.7%	3.4%	5961
Tolima	12.7%	52.0%	16.8%	16.6%	1.9%	6918
Tuluá	11.0%	58.2%	17.8%	11.2%	1.8%	1463
Tumaco	13.8%	46.0%	14.1%	20.4%	5.6%	2018
Tunja	8.5%	60.6%	18.6%	11.4%	0.9%	1403
Turbo	16.2%	44.6%	17.7%	19.2%	2.3%	1937
Uribia	14.7%	38.5%	20.4%	20.6%	5.8%	1575
Valle del Cauca	12.7%	52.9%	17.2%	14.8%	2.4%	5681
Valledupar	12.0%	56.4%	15.4%	14.2%	2.0%	3914
Vaupés	19.3%	29.2%	19.5%	26.6%	5.4%	353
Vichada	15.6%	39.3%	18.8%	23.4%	3.0%	777
Villavicencio	10.2%	59.4%	17.4%	12.0%	1.1%	3999
Yopal	11.6%	53.8%	19.1%	13.8%	1.6%	1531
Yumbo	11.1%	56.4%	17.7%	11.8%	2.9%	870
Zipaquirá	7.0%	66.6%	16.5%	9.4%	0.5%	963
Colombia	11.6%	55.2%	17.0%	13.9%	2.3%	356850

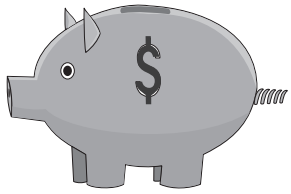
*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 15.

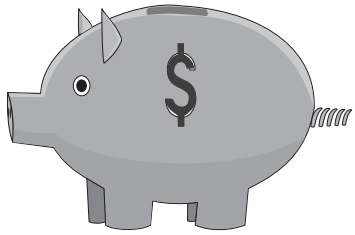
Observa en el dibujo alcancías de diferente tamaño y el número máximo de monedas que se puede ahorrar en cada una.

Se ahorran máximo 35 monedas.

Se ahorran máximo 40 monedas.



Se ahorran máximo 57monedas.



Dibujo

Respecto al tamaño de la alcancía y la cantidad de monedas que se puede ahorrar en cada una. ¿Cúal de las siguientes afirmaciones es correcta?

A. Si la alcancía es más grande, en ella se puede ahorrar menos monedas.

B. Si la alcancía es más grande, en ella se puede ahorrar más monedas.

C. En cada alcancía se puede ahorrar más de 40 monedas.

D. En cada alcancía se puede ahorrar más de 57 monedas.

• Estructura

Competencia	Razonamiento
Componente	Aleatorio
Afirmación	Describir tendencias que se presentan en un conjunto a partir de los datos que lo describen.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	B

- **Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	10.3%	42.1%	11.1%	30.6%	5.9%	673
Antioquia	8.1%	58.8%	8.7%	21.9%	2.5%	20215
Apartadó	9.1%	55.9%	10.8%	21.8%	2.4%	1148
Arauca	7.4%	63.3%	8.8%	19.0%	1.5%	2390
Armenia	8.3%	64.5%	10.1%	15.1%	2.0%	1622
Atlántico	9.2%	54.0%	9.2%	24.3%	3.3%	4254
Barrancabermeja	7.5%	63.4%	7.4%	20.1%	1.6%	1948
Barranquilla	6.7%	66.3%	7.6%	17.8%	1.6%	8003
Bello	7.8%	67.7%	7.8%	15.2%	1.5%	3172
Bogotá, D.C.	5.9%	72.6%	7.1%	12.8%	1.5%	45988
Bolívar	11.5%	45.2%	11.9%	28.0%	3.3%	8608
Boyacá	6.2%	66.3%	8.7%	18.0%	0.8%	6339
Bucaramanga	5.4%	73.4%	6.8%	13.4%	1.0%	3695
Buenaventura	8.7%	61.6%	6.9%	20.5%	2.3%	3420
Buga	8.7%	62.6%	6.8%	19.7%	2.2%	687
Caldas	6.3%	63.8%	8.2%	19.9%	1.9%	4031
Cali	6.6%	70.4%	7.1%	13.9%	2.0%	13697
Caquetá	6.8%	59.3%	7.5%	23.7%	2.8%	2278
Cartagena	8.2%	62.3%	8.1%	19.1%	2.3%	7633
Cartago	7.8%	62.8%	8.1%	19.3%	2.0%	836
Casanare	8.7%	59.7%	9.7%	20.9%	1.0%	2496
Cauca	6.7%	62.2%	7.3%	21.1%	2.7%	9584
Cesar	7.5%	56.4%	9.8%	24.5%	1.9%	6406
Chocó	10.1%	51.9%	8.6%	26.6%	2.8%	3281
Chía	5.4%	74.6%	8.8%	10.5%	0.8%	1177
Ciénaga	8.4%	51.6%	9.9%	26.1%	4.0%	1036
Cundinamarca	6.3%	68.6%	8.7%	15.6%	0.9%	11702
Córdoba	9.8%	50.7%	10.6%	26.6%	2.2%	10335
Cúcuta	6.8%	67.2%	9.2%	16.0%	0.8%	5930
Dosquebradas	7.3%	66.2%	7.8%	16.6%	2.1%	1309
Duitama	4.3%	77.0%	7.5%	11.1%	0.1%	909
Envigado	6.4%	75.5%	6.6%	10.9%	0.5%	923
Facatativá	5.7%	68.9%	9.0%	15.7%	0.7%	964
Florencia	7.2%	61.9%	8.0%	21.7%	1.3%	1518
Floridablanca	5.9%	77.5%	6.9%	8.8%	0.9%	1777
Fusagasugá	6.0%	70.8%	7.9%	13.9%	1.4%	764
Girardot	9.3%	58.8%	9.0%	20.9%	2.0%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	5.6%	69.8%	8.3%	15.0%	1.2%	1124
Guainía	8.8%	44.4%	12.6%	31.8%	2.4%	453
Guaviare	8.0%	55.8%	8.3%	25.5%	2.4%	699
Huila	6.9%	61.1%	9.2%	21.6%	1.2%	5892
Ibagué	6.4%	69.0%	7.9%	15.7%	1.0%	3696
Ipiales	4.9%	71.5%	8.4%	15.1%	0.1%	945
Itagüí	9.8%	67.8%	8.3%	13.5%	0.6%	1292
Jamundí	8.9%	60.4%	9.2%	19.2%	2.3%	775
La Guajira	9.0%	54.6%	9.8%	23.9%	2.8%	3450
Lorica	10.9%	49.4%	13.1%	24.1%	2.6%	1031
Magangué	13.7%	41.4%	13.4%	27.9%	3.5%	1156
Magdalena	9.5%	50.0%	10.5%	26.6%	3.5%	6947
Maicao	10.3%	46.1%	13.2%	27.8%	2.6%	1721
Malambo	6.7%	67.4%	6.2%	18.0%	1.7%	818
Manizales	7.3%	70.4%	7.1%	13.3%	1.9%	2010
Medellín	8.3%	63.7%	8.2%	17.7%	2.1%	13570
Meta	6.6%	63.2%	9.8%	19.5%	1.0%	4476
Montería	9.5%	55.4%	11.5%	21.9%	1.7%	3934
Mosquera	7.0%	70.1%	7.2%	14.3%	1.5%	992
Nariño	5.0%	68.7%	6.3%	17.1%	2.9%	6221
Neiva	6.9%	65.4%	8.4%	18.0%	1.3%	2784
Norte de Santander	5.5%	66.5%	8.0%	19.0%	1.0%	6459
Palmira	6.3%	68.3%	7.3%	16.9%	1.2%	2054
Pasto	6.4%	72.9%	7.8%	12.2%	0.7%	2532
Pereira	6.4%	68.3%	6.6%	16.2%	2.5%	2984
Piedecuesta	7.6%	71.2%	7.5%	12.1%	1.5%	997
Pitalito	6.1%	62.3%	9.0%	20.7%	1.9%	1195
Popayán	5.5%	71.5%	6.9%	14.8%	1.4%	2036
Putumayo	7.5%	60.3%	8.8%	21.6%	1.8%	3085
Quibdó	10.6%	56.6%	8.7%	20.9%	3.2%	1031
Quindío	8.4%	61.9%	9.0%	18.7%	2.1%	1538
Riohacha	9.9%	52.9%	10.3%	24.4%	2.5%	2216
Rionegro	6.5%	70.7%	8.1%	14.1%	0.5%	765
Risaralda	6.1%	60.2%	9.8%	21.2%	2.7%	2035
Sabaneta	6.1%	75.4%	5.3%	9.1%	4.1%	394
Sahagún	8.8%	53.7%	11.3%	25.5%	0.6%	873
San Andrés	10.0%	57.2%	8.7%	21.9%	2.2%	402
Santa Marta	6.7%	60.5%	9.4%	21.5%	1.8%	4200
Santander	6.6%	64.5%	8.2%	19.7%	1.1%	6185

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	8.2%	59.3%	10.9%	20.2%	1.4%	2353
Soacha	6.6%	70.3%	8.0%	14.2%	0.9%	3935
Sogamoso	7.0%	72.9%	8.8%	10.5%	0.8%	1046
Soledad	6.2%	68.8%	6.9%	16.7%	1.5%	3730
Sucre	10.5%	47.8%	11.1%	28.0%	2.6%	5961
Tolima	7.7%	58.2%	9.2%	23.3%	1.6%	6918
Tuluá	9.8%	65.3%	7.9%	15.9%	1.0%	1463
Tumaco	10.6%	49.2%	8.1%	27.2%	4.9%	2018
Tunja	5.8%	74.4%	6.0%	13.0%	0.8%	1403
Turbo	11.8%	48.8%	10.2%	27.3%	2.0%	1937
Uribia	13.5%	36.0%	15.3%	30.5%	4.8%	1575
Valle del Cauca	7.2%	62.7%	8.6%	19.6%	1.9%	5681
Valledupar	5.6%	65.0%	8.0%	19.5%	1.9%	3914
Vaupés	11.0%	31.2%	16.1%	37.1%	4.5%	353
Vichada	9.5%	46.8%	12.7%	29.0%	1.9%	777
Villavicencio	6.2%	69.5%	7.3%	16.3%	0.8%	3999
Yopal	7.4%	63.9%	8.0%	19.4%	1.2%	1531
Yumbo	4.9%	69.0%	8.5%	14.9%	2.6%	870
Zipaquirá	5.5%	74.0%	5.7%	14.6%	0.1%	963
Colombia	7.4%	63.2%	8.5%	19.0%	1.9%	356850

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 16.

Lucas tenía 550 pesos y compró un dulce que costó 300 pesos. ¿Con cuánto dinero quedó Lucas?

A. 200 pesos.
B. 250 pesos.
C. 800 pesos.
D. 850 pesos.

• Estructura

Competencia	Resolución
Componente	Numérico - Variacional
Afirmación	Resolver problemas aditivos rutinarios de composición y transformación e interpretar condiciones necesarias para su solución.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	B

- **Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	14.4%	48.7%	11.9%	18.9%	6.1%	673
Antioquia	15.1%	63.1%	6.3%	12.9%	2.6%	20215
Apartadó	13.9%	63.9%	6.4%	12.5%	3.2%	1148
Arauca	13.0%	64.6%	5.6%	15.3%	1.5%	2390
Armenia	14.7%	65.9%	5.4%	12.4%	1.7%	1622
Atlántico	16.6%	57.4%	7.2%	14.8%	3.9%	4254
Barrancabermeja	13.4%	65.7%	5.9%	13.4%	1.6%	1948
Barranquilla	13.2%	67.8%	4.8%	12.5%	1.7%	8003
Bello	14.9%	69.0%	6.4%	7.9%	1.8%	3172
Bogotá, D.C.	13.6%	72.3%	3.8%	8.7%	1.6%	45988
Bolívar	16.0%	51.7%	10.2%	18.3%	3.7%	8608
Boyacá	14.8%	67.0%	5.6%	11.7%	0.9%	6339
Bucaramanga	12.3%	72.6%	4.1%	10.1%	1.0%	3695
Buenaventura	11.4%	67.3%	5.5%	13.2%	2.5%	3420
Buga	15.9%	61.3%	5.7%	14.1%	3.1%	687
Caldas	13.6%	67.0%	5.1%	12.5%	1.8%	4031
Cali	14.3%	67.8%	5.0%	10.9%	2.0%	13697
Caquetá	13.3%	64.0%	5.9%	13.7%	2.9%	2278
Cartagena	14.6%	64.4%	6.4%	12.2%	2.4%	7633
Cartago	14.4%	62.4%	7.3%	14.1%	1.8%	836
Casanare	13.5%	63.3%	6.4%	15.6%	1.1%	2496
Cauca	12.4%	65.5%	5.3%	14.0%	2.8%	9584
Cesar	12.5%	63.5%	7.4%	14.7%	2.0%	6406
Chocó	12.3%	59.2%	9.4%	16.1%	2.9%	3281
Chía	14.4%	72.0%	4.2%	8.4%	1.0%	1177
Ciénaga	14.6%	59.3%	7.5%	12.6%	6.0%	1036
Cundinamarca	13.5%	69.8%	4.6%	10.9%	1.1%	11702
Córdoba	14.7%	55.8%	9.7%	17.4%	2.4%	10335
Cúcuta	12.6%	66.5%	4.9%	15.3%	0.7%	5930
Dosquebradas	12.6%	72.3%	4.1%	8.6%	2.4%	1309
Duitama	9.2%	78.2%	3.5%	8.8%	0.2%	909
Envigado	12.2%	78.0%	3.1%	5.5%	1.1%	923
Facatativá	13.1%	73.4%	3.2%	9.3%	0.9%	964
Florencia	14.2%	65.3%	5.8%	13.2%	1.6%	1518
Floridablanca	13.2%	73.8%	4.1%	8.1%	0.8%	1777
Fusagasugá	13.9%	68.2%	5.2%	11.1%	1.6%	764
Girardot	13.8%	64.4%	5.5%	13.7%	2.5%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	13.8%	67.9%	5.0%	12.2%	1.2%	1124
Guainía	17.2%	52.5%	9.9%	19.0%	1.3%	453
Guaviare	17.3%	58.5%	6.2%	15.5%	2.6%	699
Huila	14.0%	65.5%	5.4%	13.7%	1.3%	5892
Ibagué	12.3%	70.1%	4.9%	11.5%	1.3%	3696
Ipiales	13.8%	67.1%	5.8%	12.6%	0.7%	945
Itagüí	17.0%	66.6%	6.0%	9.4%	0.9%	1292
Jamundí	15.4%	58.3%	7.6%	15.1%	3.6%	775
La Guajira	12.4%	58.3%	8.1%	17.8%	3.3%	3450
Lorica	16.0%	55.7%	8.8%	16.7%	2.8%	1031
Magangué	16.4%	48.2%	11.4%	19.9%	4.1%	1156
Magdalena	14.1%	57.7%	8.2%	16.3%	3.7%	6947
Maicao	15.5%	54.8%	8.4%	18.7%	2.7%	1721
Malambo	11.9%	71.6%	5.0%	9.5%	2.0%	818
Manizales	14.8%	69.5%	4.5%	9.3%	2.0%	2010
Medellín	15.1%	67.6%	5.2%	9.9%	2.3%	13570
Meta	13.6%	66.6%	5.2%	13.3%	1.3%	4476
Montería	15.8%	57.7%	7.8%	16.7%	1.9%	3934
Mosquera	17.4%	67.5%	4.7%	8.6%	1.7%	992
Nariño	12.2%	68.9%	4.5%	11.3%	3.0%	6221
Neiva	12.9%	66.1%	5.5%	14.3%	1.2%	2784
Norte de Santander	12.8%	67.3%	4.7%	14.1%	1.2%	6459
Palmira	15.5%	65.2%	5.3%	12.4%	1.6%	2054
Pasto	14.0%	68.6%	4.7%	11.7%	0.9%	2532
Pereira	13.1%	70.1%	4.0%	10.1%	2.7%	2984
Piedecuesta	11.3%	70.6%	3.1%	12.9%	2.0%	997
Pitalito	12.2%	66.6%	5.2%	13.6%	2.3%	1195
Popayán	11.7%	71.9%	3.4%	11.0%	2.0%	2036
Putumayo	13.7%	61.0%	7.0%	16.6%	1.7%	3085
Quibdó	10.9%	62.4%	6.5%	17.6%	2.7%	1031
Quindío	15.7%	63.4%	5.1%	13.3%	2.4%	1538
Riohacha	15.3%	60.6%	7.6%	13.9%	2.7%	2216
Rionegro	14.1%	71.2%	4.3%	9.9%	0.4%	765
Risaralda	13.0%	65.8%	4.6%	13.3%	3.2%	2035
Sabaneta	12.4%	69.5%	4.6%	9.1%	4.3%	394
Sahagún	16.2%	55.6%	8.8%	18.8%	0.7%	873
San Andrés	19.2%	59.0%	7.0%	12.7%	2.2%	402
Santa Marta	14.6%	64.5%	5.7%	13.2%	1.9%	4200
Santander	15.3%	64.4%	5.7%	13.2%	1.5%	6185

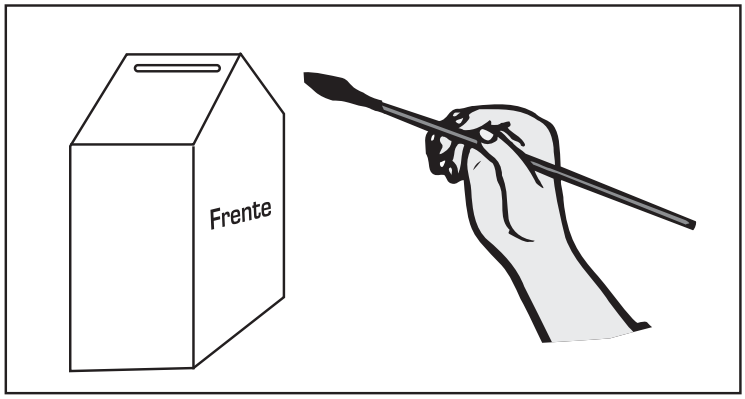
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	16.6%	58.3%	7.3%	16.4%	1.4%	2353
Soacha	14.9%	68.9%	4.4%	10.9%	0.8%	3935
Sogamoso	13.3%	70.7%	4.5%	10.9%	0.7%	1046
Soledad	12.9%	68.3%	5.5%	11.8%	1.4%	3730
Sucre	15.7%	51.9%	10.5%	18.9%	3.1%	5961
Tolima	16.1%	61.5%	6.3%	14.2%	1.9%	6918
Tuluá	16.9%	64.1%	5.9%	12.0%	1.2%	1463
Tumaco	14.4%	56.3%	9.6%	15.3%	4.5%	2018
Tunja	11.1%	75.1%	4.0%	8.8%	1.0%	1403
Turbo	16.7%	54.0%	9.9%	17.4%	2.0%	1937
Uribia	15.6%	52.0%	13.8%	14.2%	4.4%	1575
Valle del Cauca	15.4%	62.8%	5.5%	13.8%	2.4%	5681
Valledupar	12.9%	64.5%	5.6%	15.0%	2.0%	3914
Vaupés	19.3%	39.4%	15.0%	20.7%	5.7%	353
Vichada	15.1%	46.6%	10.6%	25.7%	2.1%	777
Villavicencio	12.1%	71.6%	4.3%	11.1%	0.9%	3999
Yopal	13.8%	66.9%	6.3%	11.4%	1.6%	1531
Yumbo	14.7%	65.9%	6.1%	11.1%	2.2%	870
Zipaquirá	13.8%	73.7%	2.9%	9.2%	0.3%	963
Colombia	14.1%	65.3%	5.9%	12.7%	2.0%	356850

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

- **Pregunta 17.**

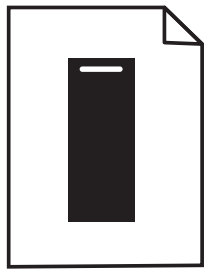
Observa la siguiente caja.



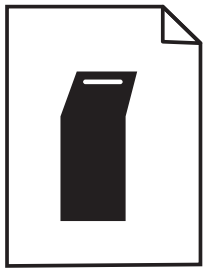
Si Braulio pinta con témpera negra el frente de la caja y lo apoya sobre una hoja, ¿cuál imagen obtiene?

A.

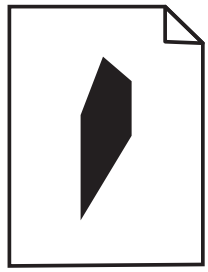
B.



C.



D.



• Estructura

Competencia	Razonamiento
Componente	Espacial - Métrico
Afirmación	Relacionar objetos tridimensionales con sus respectivas vistas.
Nivel de desempeño	Mínimo
Respuesta Correcta	A

• Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	59.7%	11.4%	15.3%	6.8%	6.7%	673
Antioquia	68.8%	9.0%	14.0%	5.5%	2.9%	20215
Apartadó	67.5%	9.5%	14.2%	5.7%	3.0%	1148
Arauca	72.6%	7.3%	14.4%	4.2%	1.5%	2390
Armenia	71.6%	8.4%	14.2%	3.9%	1.8%	1622
Atlántico	65.0%	8.8%	16.1%	5.8%	4.2%	4254
Barrancabermeja	74.9%	6.6%	13.3%	3.6%	1.5%	1948
Barranquilla	73.7%	6.5%	14.1%	3.8%	1.9%	8003
Bello	71.0%	6.9%	16.0%	4.1%	2.0%	3172
Bogotá, D.C.	75.7%	4.8%	13.8%	4.0%	1.7%	45988
Bolívar	61.7%	12.3%	15.1%	6.9%	3.9%	8608
Boyacá	75.7%	6.8%	12.7%	3.8%	1.1%	6339
Bucaramanga	76.0%	5.2%	14.1%	3.7%	1.0%	3695
Buenaventura	72.5%	7.7%	11.7%	5.4%	2.7%	3420
Buga	73.4%	7.4%	13.0%	3.3%	2.9%	687
Caldas	71.6%	7.5%	14.5%	4.4%	2.0%	4031
Cali	74.8%	5.9%	13.4%	3.9%	2.0%	13697
Caquetá	70.9%	9.4%	12.2%	4.6%	2.9%	2278
Cartagena	71.8%	7.2%	13.9%	4.5%	2.6%	7633
Cartago	68.3%	9.1%	16.4%	3.7%	2.5%	836
Casanare	73.8%	8.5%	12.1%	4.5%	1.2%	2496
Cauca	71.1%	8.0%	11.9%	5.6%	3.4%	9584
Cesar	71.2%	8.7%	13.2%	4.7%	2.2%	6406
Chocó	62.2%	13.0%	13.0%	8.6%	3.3%	3281
Chía	76.2%	5.5%	13.5%	3.7%	1.1%	1177

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Ciénaga	67.8%	9.9%	13.4%	4.3%	4.5%	1036
Cundinamarca	75.1%	5.5%	13.6%	4.5%	1.2%	11702
Córdoba	66.7%	11.0%	13.5%	6.5%	2.3%	10335
Cúcuta	73.1%	7.1%	15.0%	3.9%	1.0%	5930
Dosquebradas	72.0%	7.0%	14.1%	4.4%	2.5%	1309
Duitama	81.8%	5.2%	10.6%	2.1%	0.3%	909
Envigado	74.8%	5.3%	13.9%	5.6%	0.4%	923
Facatativá	79.1%	6.0%	11.1%	3.1%	0.6%	964
Florencia	68.8%	8.8%	16.7%	4.2%	1.4%	1518
Floridablanca	75.6%	5.3%	14.0%	3.9%	1.2%	1777
Fusagasugá	73.8%	6.0%	14.1%	4.5%	1.6%	764
Girardot	70.3%	6.9%	16.0%	4.5%	2.3%	708
Girón	76.1%	6.0%	13.4%	3.6%	0.9%	1124
Guainía	59.8%	14.8%	15.9%	6.4%	3.1%	453
Guaviare	69.7%	8.4%	13.7%	5.2%	3.0%	699
Huila	72.2%	7.7%	14.4%	4.2%	1.5%	5892
Ibagué	75.3%	5.3%	14.2%	3.9%	1.4%	3696
Ipiales	74.2%	6.2%	15.7%	3.4%	0.5%	945
Itagüí	73.0%	8.4%	14.1%	3.7%	0.9%	1292
Jamundí	67.1%	9.8%	15.1%	4.5%	3.5%	775
La Guajira	64.1%	11.3%	14.9%	6.7%	3.0%	3450
Lorica	64.4%	12.1%	14.5%	5.5%	3.4%	1031
Magangué	62.2%	9.8%	17.0%	8.0%	3.0%	1156
Magdalena	66.7%	10.4%	13.0%	6.2%	3.7%	6947
Maicao	63.1%	12.0%	16.7%	5.9%	2.3%	1721
Malambo	75.1%	7.8%	10.6%	4.4%	2.1%	818
Manizales	69.3%	6.9%	17.6%	4.3%	1.9%	2010
Medellín	69.9%	7.6%	15.9%	3.9%	2.6%	13570
Meta	73.8%	7.0%	13.4%	4.5%	1.3%	4476
Montería	67.9%	10.0%	15.0%	5.1%	2.0%	3934
Mosquera	75.3%	6.6%	13.1%	3.2%	1.8%	992
Nariño	72.9%	6.8%	11.1%	6.0%	3.3%	6221
Neiva	72.5%	6.4%	15.6%	4.1%	1.4%	2784
Norte de Santander	75.6%	6.9%	12.2%	4.0%	1.3%	6459
Palmira	73.8%	5.6%	15.9%	3.4%	1.3%	2054
Pasto	74.9%	6.1%	14.1%	3.8%	1.1%	2532
Pereira	73.4%	6.8%	13.4%	3.6%	2.8%	2984
Piedecuesta	74.3%	5.2%	14.8%	3.9%	1.7%	997
Pitalito	73.3%	7.4%	12.9%	4.4%	2.0%	1195

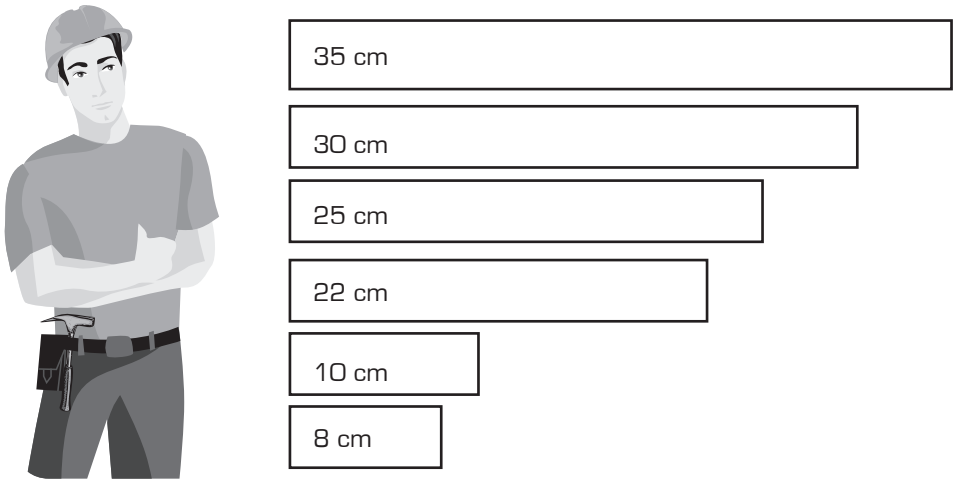
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Popayán	74.7%	5.6%	13.3%	4.7%	1.8%	2036
Putumayo	69.9%	8.8%	14.7%	4.9%	1.8%	3085
Quibdó	66.0%	8.9%	15.1%	6.6%	3.4%	1031
Quindío	71.1%	6.9%	15.1%	4.5%	2.4%	1538
Riohacha	66.9%	10.4%	14.6%	5.4%	2.6%	2216
Rionegro	74.0%	5.0%	15.6%	4.6%	0.9%	765
Risaralda	72.0%	8.2%	11.9%	4.5%	3.4%	2035
Sabaneta	78.2%	4.3%	11.2%	2.0%	4.3%	394
Sahagún	70.9%	10.3%	12.6%	5.2%	1.0%	873
San Andrés	68.7%	7.5%	16.7%	3.7%	3.5%	402
Santa Marta	70.6%	7.7%	15.0%	4.1%	2.5%	4200
Santander	73.7%	6.8%	13.3%	4.6%	1.6%	6185
Sincelejo	70.5%	9.2%	14.0%	4.6%	1.7%	2353
Soacha	74.7%	6.2%	14.7%	3.3%	1.1%	3935
Sogamoso	77.2%	4.8%	13.1%	4.0%	0.9%	1046
Soledad	75.4%	6.1%	12.3%	4.6%	1.6%	3730
Sucre	64.2%	11.6%	14.7%	6.8%	2.8%	5961
Tolima	69.2%	8.6%	15.0%	5.3%	1.9%	6918
Tuluá	71.2%	7.4%	15.3%	4.9%	1.3%	1463
Tumaco	61.2%	11.2%	14.1%	7.9%	5.6%	2018
Tunja	77.5%	5.1%	13.4%	3.1%	0.8%	1403
Turbo	66.0%	12.2%	13.9%	5.3%	2.6%	1937
Uribia	51.9%	15.8%	18.4%	8.3%	5.5%	1575
Valle del Cauca	71.8%	7.4%	14.1%	4.5%	2.3%	5681
Valledupar	72.8%	7.0%	13.7%	4.4%	2.1%	3914
Vaupés	50.1%	17.3%	16.7%	11.0%	4.8%	353
Vichada	61.0%	13.5%	17.8%	5.4%	2.3%	777
Villavicencio	74.7%	5.7%	14.2%	4.1%	1.4%	3999
Yopal	71.2%	7.9%	15.3%	4.1%	1.5%	1531
Yumbo	74.3%	5.1%	13.9%	4.5%	2.3%	870
Zipaquirá	77.8%	5.2%	13.5%	3.3%	0.2%	963
Colombia	71.6%	7.6%	14.0%	4.7%	2.2%	356850

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

- **Pregunta 18.**

Un carpintero cortó varios trozos de madera. Observa la longitud de cada trozo.



¿Cuál de las siguientes afirmaciones es correcta?

A. Todos los trozos miden más de 10 cm.

B. Todos los trozos miden menos de 22 cm.

C. Todos los trozos miden más de 26 cm.

D. Todos los trozos miden menos de 36 cm.

- **Estructura**

Competencia	Comunicación
Componente	Aleatorio
Afirmación	Describir características de un conjunto a partir de los datos que lo representan.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	D

- **Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	18.6%	15.6%	14.1%	45.0%	6.7%	673
Antioquia	17.7%	13.2%	13.2%	52.8%	3.2%	20215
Apartadó	20.0%	13.8%	13.3%	48.9%	4.0%	1148
Arauca	15.4%	13.7%	13.6%	55.6%	1.6%	2390
Armenia	17.3%	13.6%	14.7%	52.0%	2.3%	1622
Atlántico	17.0%	15.3%	12.4%	50.3%	5.0%	4254
Barrancabermeja	17.6%	13.3%	12.0%	55.1%	2.0%	1948
Barranquilla	16.4%	13.6%	11.8%	56.3%	2.0%	8003
Bello	19.0%	12.3%	13.6%	53.1%	2.0%	3172
Bogotá, D.C.	15.7%	10.6%	11.5%	60.0%	2.1%	45988
Bolívar	17.9%	16.1%	15.4%	46.2%	4.3%	8608
Boyacá	15.9%	12.0%	12.9%	57.7%	1.4%	6339
Bucaramanga	15.8%	10.5%	11.4%	61.2%	1.2%	3695
Buenaventura	15.3%	13.0%	12.0%	56.5%	3.2%	3420
Buga	20.8%	12.1%	12.2%	51.8%	3.1%	687
Caldas	16.1%	12.5%	13.0%	55.9%	2.4%	4031
Cali	16.3%	11.4%	11.4%	58.3%	2.6%	13697
Caquetá	15.9%	13.1%	11.5%	56.1%	3.3%	2278
Cartagena	15.7%	13.3%	12.5%	55.5%	2.9%	7633
Cartago	16.9%	13.8%	15.1%	51.7%	2.6%	836
Casanare	17.3%	15.4%	14.5%	51.2%	1.6%	2496
Cauca	14.5%	11.6%	11.2%	59.0%	3.7%	9584
Cesar	17.1%	13.6%	13.2%	53.5%	2.6%	6406
Chocó	16.0%	16.2%	12.6%	51.7%	3.5%	3281
Chía	16.7%	8.5%	9.7%	63.6%	1.5%	1177
Ciénaga	16.2%	15.0%	12.7%	49.9%	6.2%	1036
Cundinamarca	14.9%	11.6%	12.3%	59.7%	1.5%	11702
Córdoba	16.2%	16.2%	14.5%	50.3%	2.8%	10335
Cúcuta	17.3%	12.6%	13.9%	55.0%	1.2%	5930
Dosquebradas	20.0%	11.7%	13.7%	51.9%	2.8%	1309
Duitama	13.1%	10.7%	11.2%	64.8%	0.2%	909
Envigado	15.7%	9.0%	8.6%	65.5%	1.2%	923
Facatativá	15.4%	11.0%	10.8%	62.0%	0.8%	964
Florencia	16.9%	13.4%	14.9%	52.6%	2.2%	1518
Floridablanca	13.7%	8.9%	12.1%	63.9%	1.4%	1777
Fusagasugá	15.8%	12.3%	11.8%	58.1%	2.0%	764
Girardot	18.2%	16.2%	13.7%	50.0%	1.8%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	16.7%	12.2%	13.1%	57.1%	0.9%	1124
Guainía	17.2%	13.5%	14.6%	51.0%	3.8%	453
Guaviare	17.2%	15.3%	13.3%	49.8%	4.4%	699
Huila	16.6%	12.3%	13.8%	55.7%	1.7%	5892
Ibagué	16.9%	11.1%	12.0%	58.5%	1.5%	3696
Ipiales	16.0%	13.3%	14.9%	54.8%	1.0%	945
Itagüí	18.7%	15.8%	12.7%	51.8%	1.1%	1292
Jamundí	19.1%	11.9%	13.2%	52.5%	3.4%	775
La Guajira	14.2%	15.5%	13.2%	53.2%	3.9%	3450
Lorica	15.2%	15.1%	17.3%	48.7%	3.7%	1031
Magangué	18.2%	19.5%	15.5%	42.2%	4.7%	1156
Magdalena	14.6%	16.0%	14.2%	51.0%	4.1%	6947
Maicao	18.5%	16.3%	15.7%	46.4%	3.0%	1721
Malambo	12.7%	13.8%	12.2%	59.2%	2.1%	818
Manizales	17.7%	10.5%	12.8%	56.7%	2.2%	2010
Medellín	18.9%	12.1%	13.7%	52.5%	2.8%	13570
Meta	16.3%	13.4%	13.8%	54.8%	1.8%	4476
Montería	18.0%	15.4%	15.4%	49.0%	2.3%	3934
Mosquera	18.2%	9.7%	11.8%	58.3%	2.0%	992
Nariño	13.8%	10.3%	11.1%	61.2%	3.6%	6221
Neiva	17.9%	14.5%	13.5%	52.0%	2.0%	2784
Norte de Santander	15.0%	11.5%	11.3%	60.7%	1.4%	6459
Palmira	20.0%	12.7%	13.3%	52.4%	1.6%	2054
Pasto	16.4%	12.6%	13.5%	56.2%	1.3%	2532
Pereira	17.5%	11.0%	11.0%	57.1%	3.4%	2984
Piedecuesta	13.8%	12.4%	12.7%	59.3%	1.7%	997
Pitalito	15.6%	13.7%	14.7%	53.0%	2.9%	1195
Popayán	14.5%	11.6%	11.0%	61.1%	1.9%	2036
Putumayo	16.7%	13.7%	14.2%	53.3%	2.1%	3085
Quibdó	17.7%	13.5%	13.0%	51.6%	4.2%	1031
Quindío	17.8%	13.5%	12.0%	53.7%	3.1%	1538
Riohacha	18.1%	13.6%	13.0%	51.5%	3.7%	2216
Rionegro	15.9%	11.0%	14.4%	57.6%	1.0%	765
Risaralda	17.5%	11.3%	13.3%	54.5%	3.4%	2035
Sabaneta	13.7%	7.6%	7.4%	65.7%	5.6%	394
Sahagún	15.2%	15.5%	16.0%	51.8%	1.5%	873
San Andrés	13.4%	16.7%	13.2%	52.2%	4.5%	402
Santa Marta	17.2%	13.5%	11.5%	54.8%	2.9%	4200
Santander	15.4%	12.7%	12.5%	57.8%	1.6%	6185

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	17.0%	16.0%	14.8%	49.7%	2.5%	2353
Soacha	17.9%	12.8%	12.8%	55.2%	1.2%	3935
Sogamoso	14.3%	13.4%	11.5%	59.8%	1.0%	1046
Soledad	15.3%	12.2%	13.5%	57.0%	2.1%	3730
Sucre	16.5%	16.7%	14.9%	48.3%	3.5%	5961
Tolima	16.7%	14.2%	13.7%	52.8%	2.5%	6918
Tuluá	17.9%	14.1%	13.7%	52.7%	1.6%	1463
Tumaco	17.3%	16.0%	14.0%	46.3%	6.4%	2018
Tunja	13.9%	9.1%	10.4%	65.4%	1.3%	1403
Turbo	17.2%	16.5%	15.2%	48.2%	2.8%	1937
Uribia	16.1%	20.8%	16.8%	40.9%	5.4%	1575
Valle del Cauca	17.8%	13.1%	13.8%	52.9%	2.4%	5681
Valledupar	16.4%	12.0%	11.8%	57.1%	2.6%	3914
Vaupés	18.7%	15.9%	12.2%	47.9%	5.4%	353
Vichada	19.3%	17.5%	16.0%	44.8%	2.4%	777
Villavicencio	16.4%	12.2%	12.7%	57.2%	1.5%	3999
Yopal	18.2%	12.1%	15.1%	52.8%	1.9%	1531
Yumbo	14.8%	12.6%	12.9%	57.0%	2.6%	870
Zipaquirá	13.0%	10.9%	10.9%	64.8%	0.4%	963
Colombia	16.4%	12.9%	12.8%	55.3%	2.5%	356850

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 19.

Al perro Rufo le tomaron algunas medidas, pero olvidaron escribir la información completa en su ficha. Observa.

Ficha de la mascota	
Animal:	Perro
Nombre:	Rufo
Edad:	2 años
Peso:	3_____
Tamaño:	32 centímetros

La palabra que debe ir en la línea es

A. meses.
B. centímetros.
C. kilogramos.
D. decímetros.

• Estructura

Competencia	Comunicación
Componente	Espacial - Métrico
Afirmación	Establecer correspondencia entre objetos o eventos y patrones o instrumentos de medida.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	C

- **Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	20.4%	21.4%	41.8%	10.7%	5.8%	673
Antioquia	16.5%	17.8%	54.2%	8.3%	3.2%	20215
Apartadó	17.7%	20.6%	46.7%	11.4%	3.6%	1148
Arauca	14.4%	15.6%	61.8%	6.4%	1.8%	2390
Armenia	14.4%	17.8%	58.0%	7.8%	2.0%	1622
Atlántico	15.9%	17.6%	52.8%	9.3%	4.5%	4254
Barrancabermeja	15.0%	17.9%	57.4%	7.5%	2.1%	1948
Barranquilla	15.0%	16.8%	58.4%	7.5%	2.3%	8003
Bello	15.2%	17.5%	57.9%	7.2%	2.1%	3172
Bogotá, D.C.	11.5%	14.9%	65.5%	6.1%	2.1%	45988
Bolívar	18.0%	20.9%	44.5%	12.4%	4.2%	8608
Boyacá	12.7%	16.3%	62.3%	7.3%	1.4%	6339
Bucaramanga	11.1%	15.3%	66.3%	6.0%	1.4%	3695
Buenaventura	15.5%	17.6%	56.5%	7.0%	3.4%	3420
Buga	15.1%	16.7%	56.8%	7.6%	3.8%	687
Caldas	14.7%	18.2%	57.4%	7.3%	2.3%	4031
Cali	13.6%	15.7%	61.8%	6.4%	2.5%	13697
Caquetá	15.4%	17.7%	56.8%	6.9%	3.2%	2278
Cartagena	14.0%	17.0%	58.1%	8.2%	2.9%	7633
Cartago	15.7%	18.3%	55.5%	8.5%	2.0%	836
Casanare	17.0%	16.8%	57.1%	7.7%	1.4%	2496
Cauca	14.1%	15.8%	59.2%	7.3%	3.5%	9584
Cesar	16.4%	17.8%	54.8%	8.6%	2.3%	6406
Chocó	15.1%	22.3%	49.9%	9.4%	3.2%	3281
Chía	10.9%	13.3%	69.7%	5.0%	1.2%	1177
Ciénaga	15.8%	20.4%	48.1%	10.3%	5.4%	1036
Cundinamarca	12.7%	15.1%	64.5%	6.4%	1.4%	11702
Córdoba	16.4%	20.5%	50.2%	10.2%	2.6%	10335
Cúcuta	15.2%	16.9%	60.2%	6.5%	1.2%	5930
Dosquebradas	14.4%	17.4%	59.0%	6.2%	3.0%	1309
Duitama	11.8%	12.5%	70.1%	5.5%	0.1%	909
Envigado	11.9%	11.8%	69.2%	5.6%	1.4%	923
Facatativá	11.5%	16.0%	65.7%	5.9%	0.9%	964
Florencia	16.5%	16.3%	57.2%	8.4%	1.5%	1518
Floridablanca	10.1%	12.8%	68.7%	7.3%	1.1%	1777
Fusagasugá	11.4%	16.4%	64.4%	6.2%	1.7%	764
Girardot	18.8%	19.6%	50.4%	9.2%	2.0%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	15.8%	16.0%	59.7%	7.7%	0.7%	1124
Guainía	16.1%	17.9%	49.7%	11.5%	4.9%	453
Guaviare	16.5%	15.2%	56.8%	7.7%	3.9%	699
Huila	15.8%	17.4%	57.3%	7.8%	1.7%	5892
Ibagué	12.4%	15.8%	63.7%	6.5%	1.6%	3696
Ipiales	16.6%	15.4%	62.1%	4.8%	1.1%	945
Itagüí	14.6%	17.4%	58.9%	8.4%	0.7%	1292
Jamundí	15.0%	20.9%	50.3%	9.9%	3.9%	775
La Guajira	14.8%	17.5%	54.3%	9.7%	3.7%	3450
Lorica	17.8%	19.4%	49.5%	10.1%	3.2%	1031
Magangué	19.8%	19.6%	43.9%	12.7%	4.1%	1156
Magdalena	15.0%	17.5%	53.0%	10.2%	4.3%	6947
Maicao	19.2%	21.2%	46.3%	10.0%	3.4%	1721
Malambo	15.6%	18.1%	58.7%	5.5%	2.1%	818
Manizales	14.1%	15.8%	61.7%	6.2%	2.1%	2010
Medellín	15.2%	17.7%	56.3%	8.0%	2.8%	13570
Meta	15.2%	16.8%	58.0%	8.3%	1.7%	4476
Montería	17.2%	20.5%	50.0%	9.8%	2.4%	3934
Mosquera	12.6%	17.2%	61.8%	6.3%	2.1%	992
Nariño	12.8%	14.4%	63.0%	6.4%	3.4%	6221
Neiva	16.4%	17.4%	56.1%	7.9%	2.2%	2784
Norte de Santander	13.5%	14.7%	63.3%	7.2%	1.3%	6459
Palmira	15.3%	16.5%	58.9%	7.4%	1.9%	2054
Pasto	15.4%	16.9%	59.8%	6.3%	1.5%	2532
Pereira	11.8%	15.8%	62.4%	6.4%	3.5%	2984
Piedecuesta	11.5%	13.5%	66.5%	6.2%	2.2%	997
Pitalito	15.2%	15.8%	58.0%	8.6%	2.3%	1195
Popayán	12.6%	15.9%	64.7%	5.1%	1.8%	2036
Putumayo	17.7%	18.1%	54.6%	7.7%	1.9%	3085
Quibdó	17.9%	21.4%	48.5%	8.0%	4.2%	1031
Quindío	16.3%	17.4%	57.0%	6.8%	2.6%	1538
Riohacha	15.6%	21.3%	51.6%	7.7%	3.8%	2216
Rionegro	12.3%	14.1%	66.7%	5.8%	1.2%	765
Risaralda	14.8%	18.8%	55.0%	8.0%	3.4%	2035
Sabaneta	10.9%	10.9%	69.5%	4.3%	4.3%	394
Sahagún	15.5%	21.5%	51.8%	10.2%	1.0%	873
San Andrés	18.2%	20.1%	48.8%	9.2%	3.7%	402
Santa Marta	15.5%	18.0%	55.6%	8.2%	2.7%	4200
Santander	12.3%	15.4%	63.6%	7.1%	1.6%	6185

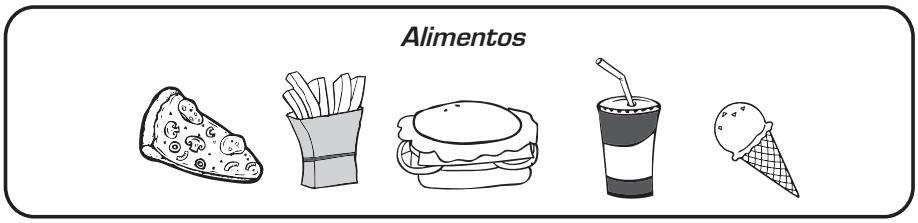
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	17.0%	21.2%	50.7%	9.1%	2.0%	2353
Soacha	13.1%	16.2%	63.1%	6.2%	1.4%	3935
Sogamoso	13.0%	14.9%	65.6%	5.3%	1.2%	1046
Soledad	13.2%	17.3%	61.3%	6.3%	1.9%	3730
Sucre	18.0%	20.1%	47.3%	11.1%	3.4%	5961
Tolima	16.6%	18.0%	54.7%	8.5%	2.3%	6918
Tuluá	13.3%	15.5%	61.7%	8.1%	1.4%	1463
Tumaco	17.7%	19.0%	46.5%	10.7%	6.0%	2018
Tunja	11.8%	15.8%	65.3%	6.1%	1.0%	1403
Turbo	20.4%	20.3%	44.4%	12.3%	2.6%	1937
Uribia	16.5%	23.4%	41.2%	13.0%	5.9%	1575
Valle del Cauca	14.9%	17.4%	57.9%	7.2%	2.7%	5681
Valledupar	13.9%	16.5%	59.6%	7.7%	2.3%	3914
Vaupés	23.8%	24.1%	33.7%	12.7%	5.7%	353
Vichada	20.1%	22.9%	44.5%	10.2%	2.3%	777
Villavicencio	13.6%	15.8%	62.8%	6.4%	1.4%	3999
Yopal	17.4%	16.9%	56.2%	7.5%	2.1%	1531
Yumbo	15.7%	17.5%	58.3%	6.3%	2.2%	870
Zipaquirá	10.1%	13.7%	69.4%	6.0%	0.8%	963
Colombia	14.5%	17.0%	58.2%	7.7%	2.5%	356850

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

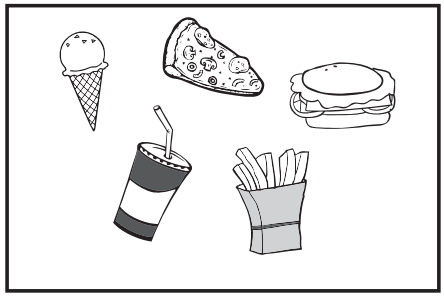
• Pregunta 20.

Camilo va a un restaurante y le ofrecen los siguientes alimentos

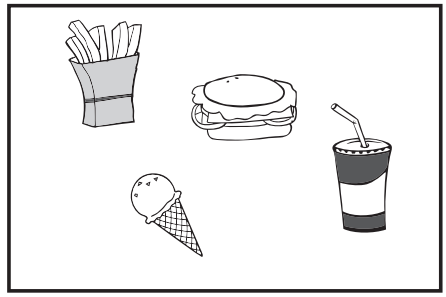


Camilo solamente escogió 3 alimentos. ¿Cuál conjunto podría representar los 3 alimentos escogidos?

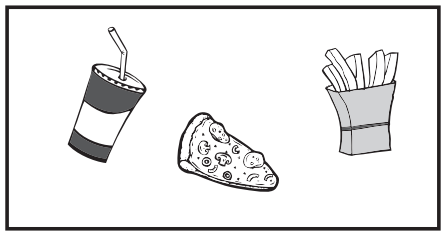
A.



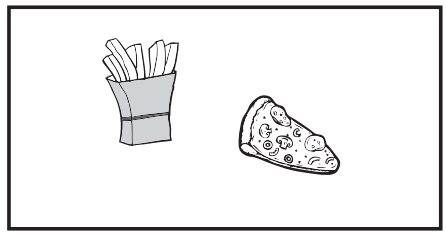
B.



C.



D.



• Estructura

Competencia	Comunicación
Componente	Numérico - Variacional
Afirmación	Reconocer el uso de números naturales en diferentes contextos.
Nivel de desempeño	Mínimo
Respuesta Correcta	C

- **Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	21.0%	5.7%	65.2%	3.9%	4.3%	672
Antioquia	12.1%	3.5%	79.5%	2.8%	2.1%	20211
Apartadó	15.5%	3.9%	74.5%	3.7%	2.4%	1149
Arauca	13.6%	2.6%	81.5%	1.6%	0.7%	2390
Armenia	11.5%	2.5%	82.6%	1.8%	1.5%	1624
Atlántico	17.8%	4.1%	71.1%	3.6%	3.5%	4252
Barrancabermeja	10.5%	2.6%	82.8%	2.5%	1.5%	1947
Barranquilla	11.7%	2.6%	82.0%	2.2%	1.4%	8006
Bello	9.2%	2.1%	85.2%	1.9%	1.6%	3173
Bogotá, D.C.	6.3%	1.6%	89.4%	1.4%	1.3%	45991
Bolívar	21.0%	5.8%	64.7%	5.6%	2.8%	8606
Boyacá	10.4%	2.9%	84.0%	2.1%	0.7%	6337
Bucaramanga	8.0%	1.4%	88.3%	1.4%	0.8%	3695
Buenaventura	14.8%	3.7%	76.8%	2.9%	1.8%	3423
Buga	11.1%	2.9%	82.1%	1.5%	2.5%	687
Caldas	11.7%	2.2%	82.8%	2.3%	1.0%	4030
Cali	9.4%	2.0%	85.4%	1.7%	1.5%	13697
Caquetá	11.4%	4.0%	80.3%	2.1%	2.2%	2279
Cartagena	14.5%	3.4%	76.7%	3.1%	2.3%	7633
Cartago	11.8%	3.5%	81.0%	2.2%	1.6%	836
Casanare	11.7%	2.8%	82.6%	2.2%	0.7%	2496
Cauca	12.4%	3.4%	79.2%	3.0%	2.0%	9587
Cesar	14.8%	3.6%	77.0%	2.9%	1.6%	6409
Chocó	18.8%	6.8%	66.9%	4.7%	2.7%	3280
Chía	6.6%	1.6%	89.8%	1.2%	0.8%	1176
Ciénaga	17.6%	4.3%	69.0%	4.3%	4.7%	1037
Cundinamarca	9.2%	1.8%	86.8%	1.5%	0.7%	11700
Córdoba	18.9%	5.8%	68.7%	4.4%	2.1%	10335
Cúcuta	10.4%	1.9%	85.3%	1.7%	0.7%	5930
Dosquebradas	7.2%	2.0%	87.6%	1.8%	1.4%	1309
Duitama	5.5%	1.4%	92.5%	0.6%	0.0%	909
Envigado	5.1%	2.2%	90.6%	1.5%	0.7%	923
Facatativá	8.1%	0.8%	89.5%	1.2%	0.3%	964
Florencia	12.1%	3.0%	81.9%	1.6%	1.3%	1518
Floridablanca	6.8%	2.0%	89.2%	1.4%	0.7%	1777
Fusagasugá	10.2%	1.7%	84.2%	2.2%	1.7%	764
Girardot	13.4%	2.8%	80.1%	2.7%	1.0%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	11.6%	2.8%	83.6%	1.8%	0.4%	1125
Guainía	17.0%	6.8%	69.8%	4.9%	1.5%	453
Guaviare	11.2%	3.7%	80.1%	3.4%	1.6%	698
Huila	11.7%	2.8%	82.1%	2.1%	1.2%	5892
Ibagué	9.4%	2.0%	86.2%	1.4%	0.9%	3696
Ipiales	9.5%	2.0%	87.2%	0.8%	0.4%	946
Itagüí	8.7%	2.4%	85.8%	2.6%	0.6%	1293
Jamundí	15.6%	3.5%	76.5%	2.2%	2.3%	778
La Guajira	17.4%	5.3%	69.6%	5.1%	2.6%	3448
Lorica	21.1%	5.2%	66.4%	4.5%	2.8%	1032
Magangué	24.6%	4.6%	62.7%	4.4%	3.7%	1157
Magdalena	19.0%	5.4%	68.4%	4.1%	3.1%	6946
Maicao	21.0%	5.5%	66.9%	4.8%	1.8%	1720
Malambo	13.3%	2.9%	78.9%	2.6%	2.3%	818
Manizales	8.8%	2.1%	86.9%	1.4%	0.7%	2010
Medellín	9.5%	2.6%	84.0%	1.9%	2.0%	13569
Meta	11.8%	2.4%	82.9%	2.2%	0.7%	4477
Montería	18.7%	4.2%	71.8%	3.6%	1.7%	3934
Mosquera	6.7%	1.8%	88.5%	1.6%	1.3%	993
Nariño	9.5%	2.9%	82.6%	2.2%	2.8%	6223
Neiva	12.1%	2.1%	83.4%	1.9%	0.5%	2784
Norte de Santander	10.7%	2.1%	84.1%	2.2%	0.9%	6458
Palmira	10.9%	1.9%	85.0%	0.9%	1.3%	2052
Pasto	7.7%	1.5%	88.2%	1.8%	0.8%	2530
Pereira	7.9%	1.5%	87.2%	1.7%	1.6%	2982
Piedecuesta	7.0%	2.1%	87.6%	1.5%	1.8%	996
Pitalito	10.8%	2.2%	83.8%	1.7%	1.6%	1194
Popayán	8.7%	1.8%	86.1%	1.8%	1.6%	2035
Putumayo	13.7%	3.4%	78.7%	2.7%	1.5%	3086
Quibdó	15.3%	4.0%	73.2%	4.6%	2.9%	1033
Quindío	9.9%	2.8%	83.2%	2.1%	2.1%	1538
Riohacha	15.2%	4.2%	73.1%	5.1%	2.4%	2217
Rionegro	7.3%	1.4%	88.9%	2.0%	0.4%	764
Risaralda	10.7%	2.7%	81.8%	2.4%	2.4%	2033
Sabaneta	5.1%	2.0%	87.6%	0.5%	4.8%	395
Sahagún	19.4%	3.4%	74.3%	2.3%	0.6%	873
San Andrés	18.7%	2.2%	75.3%	2.0%	1.7%	401
Santa Marta	15.9%	2.7%	77.6%	2.2%	1.6%	4204
Santander	11.5%	2.4%	82.8%	2.1%	1.2%	6185

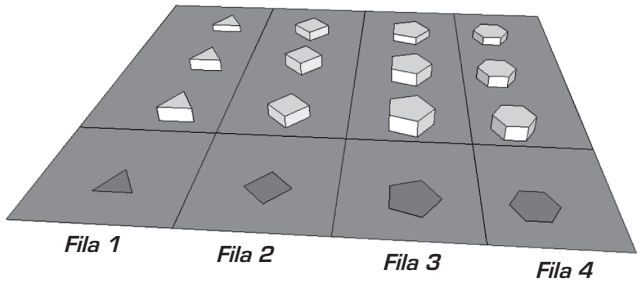
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	16.5%	3.1%	76.0%	3.1%	1.4%	2353
Soacha	8.6%	1.6%	87.3%	1.8%	0.7%	3934
Sogamoso	7.3%	2.4%	88.2%	1.6%	0.5%	1046
Soledad	12.1%	2.4%	82.0%	2.1%	1.4%	3730
Sucre	21.2%	5.3%	66.6%	4.4%	2.5%	5959
Tolima	14.1%	3.7%	78.1%	2.7%	1.5%	6918
Tuluá	9.6%	2.1%	85.5%	1.8%	1.0%	1463
Tumaco	15.9%	5.3%	68.8%	4.8%	5.3%	2017
Tunja	6.9%	1.6%	90.0%	1.0%	0.4%	1403
Turbo	19.2%	4.9%	69.7%	4.4%	1.9%	1937
Uribia	20.6%	9.4%	57.3%	8.1%	4.5%	1575
Valle del Cauca	12.8%	2.9%	80.7%	2.0%	1.6%	5679
Valledupar	12.1%	2.9%	80.5%	2.6%	1.9%	3913
Vaupés	22.1%	9.9%	56.9%	7.6%	3.4%	353
Vichada	20.6%	5.5%	67.7%	4.1%	2.1%	777
Villavicencio	10.3%	2.0%	85.5%	1.4%	0.8%	3999
Yopal	11.4%	2.3%	82.2%	3.0%	1.1%	1532
Yumbo	9.2%	2.5%	85.3%	1.5%	1.5%	869
Zipaquirá	6.2%	1.2%	89.5%	2.7%	0.3%	963
Colombia	11.9%	3.0%	81.0%	2.5%	1.6%	356848

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 21.

En un tablero se ubicaron las siguientes fichas. Observa.



¿En cuál fila debe ir la ficha ?

A. En la fila 1.
B. En la fila 2.
C. En la fila 3.
D. En la fila 4.

• Estructura

Competencia	Razonamiento
Componente	Espacial - Métrico
Afirmación	Establecer diferencias y similitudes entre objetos bidimensionales y tridimensionales de acuerdo con sus propiedades.
Nivel de desempeño	Mínimo
Respuesta Correcta	A

- **Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	73.2%	9.1%	7.0%	6.8%	3.9%	672
Antioquia	84.8%	4.9%	3.8%	4.4%	2.1%	20211
Apartadó	82.1%	6.1%	4.4%	5.1%	2.3%	1149
Arauca	87.6%	3.9%	3.6%	3.9%	0.9%	2390
Armenia	89.5%	3.0%	2.6%	3.2%	1.7%	1624
Atlántico	79.0%	5.3%	5.3%	6.8%	3.6%	4252
Barrancabermeja	88.6%	3.5%	3.1%	3.3%	1.4%	1947
Barranquilla	88.9%	3.1%	2.9%	3.5%	1.5%	8006
Bello	91.1%	2.7%	2.2%	2.5%	1.4%	3173
Bogotá, D.C.	94.2%	1.5%	1.4%	1.6%	1.2%	45991
Bolívar	70.5%	8.3%	7.4%	10.3%	3.4%	8606
Boyacá	89.6%	3.5%	2.4%	3.9%	0.6%	6337
Bucaramanga	94.7%	1.9%	1.4%	1.4%	0.7%	3695
Buenaventura	82.1%	5.2%	4.7%	5.9%	2.1%	3423
Buga	88.5%	3.3%	1.7%	3.6%	2.8%	687
Caldas	89.3%	3.3%	2.8%	3.6%	1.0%	4030
Cali	91.6%	2.5%	1.9%	2.4%	1.7%	13697
Caquetá	85.0%	3.9%	3.5%	5.3%	2.2%	2279
Cartagena	83.7%	4.9%	4.0%	4.8%	2.6%	7633
Cartago	88.0%	4.7%	3.1%	2.5%	1.7%	836
Casanare	88.6%	4.2%	2.7%	3.7%	0.8%	2496
Cauca	83.2%	4.7%	4.5%	5.4%	2.2%	9587
Cesar	83.1%	5.0%	4.4%	5.7%	1.8%	6409
Chocó	70.6%	9.5%	7.2%	9.3%	3.4%	3280
Chía	94.8%	1.4%	2.0%	0.9%	0.9%	1176
Ciénaga	74.4%	9.2%	5.4%	6.2%	4.8%	1037
Cundinamarca	91.8%	2.5%	2.1%	2.8%	0.8%	11700
Córdoba	74.8%	7.9%	6.7%	8.3%	2.3%	10335
Cúcuta	91.7%	2.5%	2.3%	2.8%	0.7%	5930
Dosquebradas	93.5%	1.9%	1.4%	1.9%	1.3%	1309
Duitama	94.8%	2.2%	1.9%	1.1%	0.0%	909
Envigado	93.1%	2.2%	2.4%	2.0%	0.4%	923
Facatativá	93.6%	1.9%	2.3%	1.7%	0.6%	964
Florencia	89.0%	3.4%	2.9%	3.7%	1.0%	1518
Floridablanca	94.5%	1.6%	1.6%	1.5%	0.8%	1777
Fusagasugá	90.4%	2.2%	2.6%	3.4%	1.3%	764
Girardot	89.0%	3.2%	2.8%	4.1%	0.8%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	92.2%	2.8%	2.5%	2.0%	0.5%	1125
Guainía	68.4%	8.6%	7.5%	13.7%	1.8%	453
Guaviare	85.7%	4.2%	4.2%	4.3%	1.7%	698
Huila	88.5%	3.1%	3.0%	4.2%	1.3%	5892
Ibagué	92.7%	2.2%	1.9%	2.2%	0.9%	3696
Ipiales	91.4%	2.4%	2.5%	3.4%	0.2%	946
Itagüí	92.2%	2.8%	2.5%	1.9%	0.6%	1293
Jamundí	84.4%	4.2%	3.6%	5.0%	2.7%	778
La Guajira	73.0%	7.6%	6.5%	10.1%	2.8%	3448
Lorica	73.2%	7.8%	6.3%	10.1%	2.6%	1032
Magangué	72.5%	8.7%	6.1%	9.5%	3.1%	1157
Magdalena	73.6%	7.4%	6.5%	9.2%	3.3%	6946
Maicao	71.7%	8.7%	7.6%	9.5%	2.6%	1720
Malambo	85.9%	2.7%	3.2%	5.5%	2.7%	818
Manizales	92.9%	2.3%	1.8%	2.0%	0.9%	2010
Medellín	90.3%	2.8%	2.2%	2.7%	2.1%	13569
Meta	89.1%	3.3%	2.8%	3.9%	0.9%	4477
Montería	79.3%	5.9%	6.3%	6.4%	2.0%	3934
Mosquera	93.0%	2.4%	1.2%	2.5%	0.9%	993
Nariño	86.6%	3.5%	3.2%	4.0%	2.7%	6223
Neiva	89.6%	3.0%	2.9%	3.7%	0.8%	2784
Norte de Santander	89.6%	3.1%	2.7%	3.7%	0.9%	6458
Palmira	90.3%	3.3%	2.1%	3.3%	1.0%	2052
Pasto	92.6%	2.1%	2.1%	2.5%	0.6%	2530
Pereira	92.6%	2.0%	1.6%	2.0%	1.6%	2982
Piedecuesta	91.4%	2.8%	2.0%	1.9%	1.9%	996
Pitalito	89.8%	3.0%	2.5%	2.5%	2.2%	1194
Popayán	93.0%	1.8%	1.8%	2.1%	1.3%	2035
Putumayo	85.3%	4.8%	3.4%	5.1%	1.5%	3086
Quibdó	80.1%	5.8%	5.0%	5.6%	3.5%	1033
Quindío	88.7%	2.0%	3.1%	3.8%	2.5%	1538
Riohacha	79.0%	6.3%	5.1%	7.1%	2.5%	2217
Rionegro	92.5%	1.8%	2.9%	2.4%	0.4%	764
Risaralda	87.8%	3.0%	3.3%	3.6%	2.4%	2033
Sabaneta	91.9%	1.8%	1.5%	0.5%	4.3%	395
Sahagún	79.0%	7.4%	4.9%	7.6%	1.0%	873
San Andrés	80.0%	7.0%	6.2%	5.2%	1.5%	401
Santa Marta	87.7%	2.9%	3.5%	4.2%	1.7%	4204
Santander	88.5%	3.3%	2.7%	4.3%	1.2%	6185

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	85.6%	3.7%	4.3%	5.1%	1.2%	2353
Soacha	93.6%	1.8%	1.7%	2.3%	0.7%	3934
Sogamoso	93.1%	2.5%	1.7%	2.2%	0.5%	1046
Soledad	88.6%	3.4%	2.9%	3.7%	1.4%	3730
Sucre	72.3%	8.3%	6.6%	10.1%	2.7%	5959
Tolima	84.6%	4.5%	3.8%	5.5%	1.6%	6918
Tuluá	91.4%	2.5%	2.6%	2.9%	0.6%	1463
Tumaco	71.9%	7.3%	6.8%	8.9%	5.1%	2017
Tunja	94.5%	1.9%	1.3%	1.9%	0.5%	1403
Turbo	76.8%	5.9%	6.4%	8.4%	2.5%	1937
Uribia	50.4%	15.4%	11.9%	17.4%	4.9%	1575
Valle del Cauca	87.8%	3.6%	3.1%	3.8%	1.7%	5679
Valledupar	86.6%	3.6%	3.7%	4.1%	2.1%	3913
Vaupés	54.7%	10.5%	13.3%	18.4%	3.1%	353
Vichada	69.4%	9.1%	7.5%	12.0%	2.1%	777
Villavicencio	92.3%	2.5%	1.9%	2.7%	0.7%	3999
Yopal	90.3%	3.1%	3.1%	2.6%	1.0%	1532
Yumbo	89.6%	3.1%	2.5%	3.1%	1.6%	869
Zipaquirá	95.2%	2.0%	1.1%	1.1%	0.5%	963
Colombia	86.7%	3.9%	3.4%	4.3%	1.7%	356848

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 22.

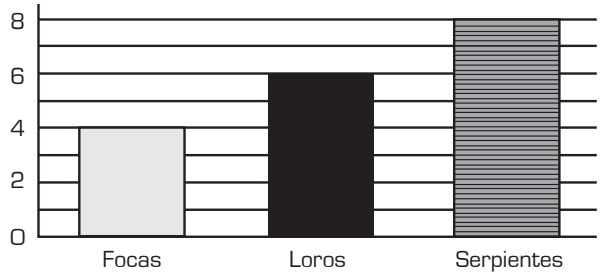
Observa en la tabla y la gráfica, la cantidad de animales que hay en dos zoológicos.

Zoológico Divertido

Animales	*Cantidad*
Focas	6
Loros	8
Serpientes	7

Tabla

Zoológico Amigos



Gráfica

¿Cuántos loros faltan en el zoológico *Amigos* para tener igual cantidad que en el zoológico *Divertido*?

A. 2
B. 6
C. 14
D. 18

• Estructura

Competencia	Resolución
Componente	Aleatorio
Afirmación	Resolver problemas a partir del análisis de datos recolectados.
Nivel de desempeño	Mínimo
Respuesta Correcta	A

• Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	45.7%	22.2%	12.2%	15.3%	4.6%	672
Antioquia	66.7%	16.1%	6.5%	8.2%	2.6%	20211
Apartadó	58.9%	20.0%	8.8%	9.2%	3.0%	1149
Arauca	70.8%	15.8%	5.1%	7.5%	0.8%	2390
Armenia	70.0%	16.5%	5.6%	6.2%	1.8%	1624
Atlántico	61.6%	18.0%	6.3%	10.2%	3.9%	4252
Barrancabermeja	71.4%	14.5%	5.9%	6.5%	1.7%	1947
Barranquilla	72.7%	13.8%	5.3%	6.4%	1.7%	8006
Bello	73.4%	14.5%	4.8%	5.4%	2.0%	3173
Bogotá, D.C.	79.3%	11.6%	3.8%	3.8%	1.4%	45991
Bolívar	51.0%	20.8%	10.6%	14.0%	3.6%	8606
Boyacá	74.3%	14.8%	4.2%	5.8%	0.9%	6337
Bucaramanga	80.1%	11.5%	3.7%	3.7%	0.9%	3695
Buenaventura	65.1%	16.5%	6.0%	9.6%	2.7%	3423
Buga	68.6%	17.0%	5.5%	6.4%	2.5%	687
Caldas	72.5%	15.0%	5.3%	5.9%	1.3%	4030
Cali	74.6%	13.3%	4.5%	5.7%	1.9%	13697
Caquetá	67.2%	15.6%	6.1%	8.5%	2.6%	2279
Cartagena	67.0%	15.3%	6.8%	8.1%	2.8%	7633
Cartago	69.3%	15.6%	6.8%	6.9%	1.4%	836
Casanare	68.3%	16.8%	6.7%	7.1%	1.0%	2496
Cauca	68.4%	14.5%	6.3%	8.0%	2.7%	9587
Cesar	64.9%	17.4%	6.8%	8.8%	2.2%	6409
Chocó	55.3%	19.6%	10.2%	11.6%	3.3%	3280
Chía	79.9%	11.0%	3.7%	4.3%	1.1%	1176
Ciénaga	59.0%	16.0%	9.5%	9.7%	5.7%	1037
Cundinamarca	77.0%	13.1%	4.0%	5.0%	0.9%	11700
Córdoba	56.7%	20.3%	9.1%	11.3%	2.6%	10335
Cúcuta	75.3%	13.1%	4.8%	6.0%	0.8%	5930
Dosquebradas	76.4%	13.8%	3.8%	4.5%	1.5%	1309
Duitama	84.0%	9.5%	2.8%	3.5%	0.2%	909
Envigado	81.6%	10.3%	3.1%	4.1%	0.9%	923
Facatativá	77.8%	13.0%	4.9%	3.6%	0.7%	964
Florencia	68.2%	15.9%	6.5%	7.6%	1.8%	1518
Floridablanca	83.5%	10.1%	2.8%	2.9%	0.8%	1777
Fusagasugá	78.5%	13.7%	2.6%	3.8%	1.3%	764
Girardot	70.8%	14.0%	7.5%	6.6%	1.1%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	76.4%	13.1%	4.4%	5.6%	0.5%	1125
Guainía	47.9%	19.9%	13.5%	16.3%	2.4%	453
Guaviare	67.3%	17.8%	5.6%	7.2%	2.1%	698
Huila	70.0%	16.2%	5.1%	7.4%	1.3%	5892
Ibagué	75.8%	13.8%	4.1%	5.0%	1.3%	3696
Ipiales	76.0%	13.1%	4.8%	5.2%	1.0%	946
Itagüí	74.7%	14.3%	5.2%	4.6%	1.2%	1293
Jamundí	68.3%	16.1%	4.8%	8.6%	2.3%	778
La Guajira	58.6%	17.7%	9.9%	10.2%	3.5%	3448
Lorica	58.0%	19.0%	8.5%	11.3%	3.1%	1032
Magangué	48.7%	22.8%	11.7%	13.4%	3.5%	1157
Magdalena	56.2%	18.6%	8.9%	12.5%	3.8%	6946
Maicao	55.3%	21.0%	9.8%	10.5%	3.3%	1720
Malambo	70.5%	13.0%	5.4%	7.9%	3.2%	818
Manizales	78.3%	11.5%	4.8%	4.5%	0.8%	2010
Medellín	71.8%	14.5%	5.0%	6.3%	2.4%	13569
Meta	72.1%	14.9%	5.1%	6.9%	1.0%	4477
Montería	61.4%	18.3%	8.7%	9.3%	2.3%	3934
Mosquera	80.4%	10.8%	4.3%	3.2%	1.3%	993
Nariño	73.4%	13.1%	4.6%	5.7%	3.1%	6223
Neiva	73.6%	14.8%	4.8%	5.8%	1.0%	2784
Norte de Santander	74.8%	14.0%	4.1%	6.0%	1.1%	6458
Palmira	74.1%	13.5%	5.4%	5.3%	1.7%	2052
Pasto	78.1%	12.1%	4.1%	4.9%	0.7%	2530
Pereira	76.9%	12.3%	4.0%	4.7%	2.0%	2982
Piedecuesta	78.3%	10.9%	3.7%	4.5%	2.5%	996
Pitalito	72.0%	13.9%	5.4%	6.7%	2.0%	1194
Popayán	76.8%	11.7%	4.2%	5.9%	1.4%	2035
Putumayo	66.2%	17.8%	6.3%	8.1%	1.6%	3086
Quibdó	60.1%	19.6%	8.3%	8.6%	3.4%	1033
Quindío	70.2%	14.6%	5.5%	7.3%	2.5%	1538
Riohacha	61.9%	17.4%	8.9%	9.1%	2.8%	2217
Rionegro	79.8%	11.9%	3.7%	3.5%	1.0%	764
Risaralda	70.0%	15.0%	6.1%	6.4%	2.5%	2033
Sabaneta	82.0%	9.4%	2.8%	1.8%	4.1%	395
Sahagún	60.1%	19.2%	7.9%	11.3%	1.4%	873
San Andrés	57.6%	23.2%	7.7%	9.7%	1.7%	401
Santa Marta	67.5%	16.7%	5.8%	7.8%	2.2%	4204
Santander	72.5%	14.3%	4.9%	6.9%	1.4%	6185

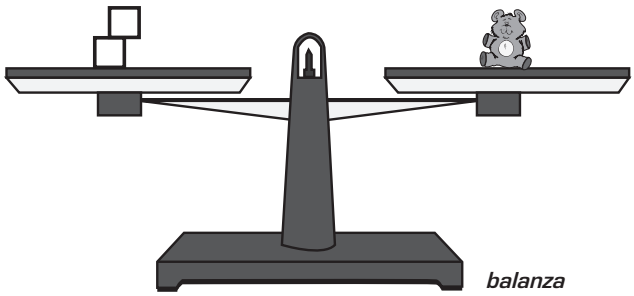
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	65.1%	17.9%	7.0%	8.1%	1.9%	2353
Soacha	77.0%	13.4%	4.4%	4.1%	1.0%	3934
Sogamoso	78.1%	14.1%	3.6%	3.4%	0.7%	1046
Soledad	74.6%	13.2%	4.7%	5.7%	1.8%	3730
Sucre	55.0%	20.3%	9.8%	11.9%	3.0%	5959
Tolima	66.1%	17.7%	6.0%	8.4%	1.8%	6918
Tuluá	75.1%	13.3%	4.3%	5.7%	1.6%	1463
Tumaco	53.1%	19.3%	11.3%	10.5%	5.8%	2017
Tunja	81.4%	9.8%	3.4%	4.8%	0.6%	1403
Turbo	57.6%	19.3%	8.6%	12.0%	2.5%	1937
Uribia	44.6%	21.2%	16.5%	12.8%	4.8%	1575
Valle del Cauca	70.2%	15.3%	5.7%	7.0%	1.8%	5679
Valledupar	70.8%	14.5%	5.4%	7.1%	2.2%	3913
Vaupés	34.0%	24.4%	13.9%	23.8%	4.0%	353
Vichada	50.3%	20.6%	11.5%	15.3%	2.3%	777
Villavicencio	77.8%	12.5%	4.2%	4.8%	0.8%	3999
Yopal	71.9%	15.5%	5.1%	6.1%	1.4%	1532
Yumbo	71.9%	13.8%	5.6%	6.4%	2.2%	869
Zipaquirá	83.2%	9.9%	2.4%	3.8%	0.7%	963
Colombia	70.1%	15.0%	5.8%	7.1%	2.0%	356848

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

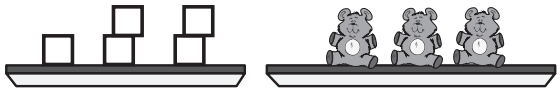
• Pregunta 23.

Para equilibrar la balanza, Daniel utiliza 2 fichas por cada oso de peluche. Observa.

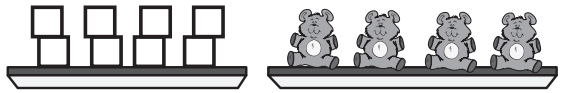


¿En cuál de las siguientes opciones la balanza también quedaría equilibrada?

A.

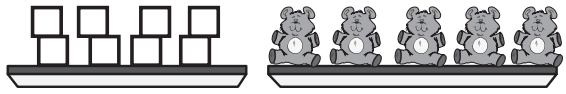


B.



C.

D.



• Estructura

Competencia	Resolución
Componente	Numérico - Variacional
Afirmación	Resolver y formular problemas sencillos de proporcionalidad directa.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	B

- **Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)**

ETC	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	13.1%	37.4%	20.5%	24.1%	4.9%	672
Antioquia	12.0%	49.1%	18.0%	18.2%	2.7%	20211
Apartadó	13.9%	45.5%	17.8%	19.6%	3.2%	1149
Arauca	9.7%	53.7%	19.6%	15.9%	1.2%	2390
Armenia	13.6%	49.9%	19.6%	15.0%	1.8%	1624
Atlántico	12.1%	43.4%	20.3%	19.9%	4.3%	4252
Barrancabermeja	12.0%	52.5%	18.8%	14.5%	2.2%	1947
Barranquilla	11.9%	53.1%	17.1%	15.8%	2.0%	8006
Bello	13.9%	48.9%	19.2%	16.2%	1.9%	3173
Bogotá, D.C.	11.3%	58.2%	16.0%	12.8%	1.6%	45991
Bolívar	13.4%	40.8%	20.6%	21.3%	3.8%	8606
Boyacá	10.4%	56.5%	17.5%	14.7%	0.9%	6337
Bucaramanga	10.4%	61.7%	15.0%	12.0%	0.9%	3695
Buenaventura	11.1%	53.4%	16.6%	15.4%	3.6%	3423
Buga	12.5%	49.6%	21.4%	13.4%	3.1%	687
Caldas	11.3%	55.1%	16.3%	16.1%	1.3%	4030
Cali	12.0%	54.1%	17.8%	14.0%	2.1%	13697
Caquetá	10.7%	53.4%	17.2%	16.0%	2.6%	2279
Cartagena	11.5%	52.9%	16.6%	16.0%	3.0%	7633
Cartago	13.4%	51.2%	16.3%	17.5%	1.7%	836
Casanare	11.3%	52.4%	18.8%	16.3%	1.1%	2496
Cauca	10.2%	54.9%	15.9%	16.4%	2.6%	9587
Cesar	10.5%	51.5%	18.9%	16.7%	2.5%	6409
Chocó	12.3%	46.4%	18.7%	18.9%	3.7%	3280
Chía	10.5%	60.2%	17.5%	10.7%	1.0%	1176
Ciénaga	9.5%	47.1%	16.0%	21.0%	6.4%	1037
Cundinamarca	9.8%	59.4%	16.1%	13.8%	0.9%	11700
Córdoba	12.6%	43.2%	20.0%	21.3%	2.8%	10335
Cúcuta	12.9%	54.7%	16.9%	14.6%	0.9%	5930
Dosquebradas	14.1%	48.6%	18.7%	16.9%	1.7%	1309
Duitama	9.4%	66.7%	12.2%	11.7%	0.1%	909
Envigado	10.3%	63.8%	14.3%	10.5%	1.1%	923
Facatativá	11.9%	57.9%	14.1%	15.2%	0.8%	964
Florencia	10.6%	52.0%	18.4%	16.7%	2.2%	1518
Floridablanca	9.6%	63.6%	14.2%	11.7%	0.9%	1777
Fusagasugá	13.4%	59.9%	12.6%	12.7%	1.4%	764
Girardot	13.8%	47.6%	20.2%	17.2%	1.1%	708

Continúa en la siguiente página

ETC	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	11.9%	57.3%	15.6%	14.4%	0.7%	1125
Guainía	11.7%	43.3%	22.1%	19.9%	3.1%	453
Guaviare	10.9%	48.3%	17.6%	21.1%	2.1%	698
Huila	10.6%	52.8%	18.2%	16.8%	1.6%	5892
Ibagué	12.1%	56.7%	16.2%	13.7%	1.2%	3696
Ipiales	10.9%	58.2%	14.4%	16.1%	0.4%	946
Itagüí	13.1%	54.4%	16.7%	14.8%	0.9%	1293
Jamundí	12.6%	45.6%	21.7%	17.7%	2.3%	778
La Guajira	10.2%	50.6%	17.2%	18.5%	3.4%	3448
Lorica	13.8%	45.6%	17.7%	19.5%	3.4%	1032
Magangué	13.9%	38.1%	21.8%	22.3%	3.9%	1157
Magdalena	12.1%	46.2%	17.4%	20.4%	4.0%	6946
Maicao	12.7%	40.4%	22.8%	20.9%	3.1%	1720
Malambo	9.7%	62.5%	10.3%	14.9%	2.7%	818
Manizales	12.2%	56.2%	17.8%	12.9%	0.9%	2010
Medellín	13.5%	49.2%	18.8%	16.0%	2.5%	13569
Meta	11.8%	52.8%	17.6%	16.6%	1.3%	4477
Montería	13.3%	44.7%	19.8%	19.7%	2.5%	3934
Mosquera	12.9%	56.3%	16.2%	12.8%	1.8%	993
Nariño	9.3%	59.6%	13.8%	14.3%	3.0%	6223
Neiva	11.7%	51.5%	20.2%	15.7%	0.9%	2784
Norte de Santander	10.3%	57.5%	16.3%	14.9%	1.1%	6458
Palmira	13.9%	52.3%	17.5%	14.5%	1.7%	2052
Pasto	13.7%	54.5%	15.9%	15.0%	0.9%	2530
Pereira	11.3%	55.9%	17.2%	13.5%	2.1%	2982
Piedecuesta	8.9%	62.0%	13.4%	13.6%	2.1%	996
Pitalito	10.3%	56.5%	15.9%	15.2%	2.1%	1194
Popayán	10.6%	58.7%	15.7%	13.2%	1.8%	2035
Putumayo	11.9%	50.7%	17.6%	18.0%	1.8%	3086
Quibdó	13.4%	45.1%	18.6%	18.4%	4.5%	1033
Quindío	13.5%	50.1%	17.9%	16.1%	2.4%	1538
Riohacha	11.5%	46.1%	19.1%	19.9%	3.4%	2217
Rionegro	10.7%	60.3%	15.1%	13.1%	0.8%	764
Risaralda	11.4%	52.6%	17.0%	15.8%	3.2%	2033
Sabaneta	10.1%	58.7%	15.2%	10.6%	5.3%	395
Sahagún	11.5%	44.0%	22.2%	21.0%	1.4%	873
San Andrés	13.2%	44.4%	19.2%	21.4%	1.7%	401
Santa Marta	13.2%	49.4%	18.3%	16.9%	2.1%	4204
Santander	10.2%	58.7%	15.4%	14.2%	1.4%	6185

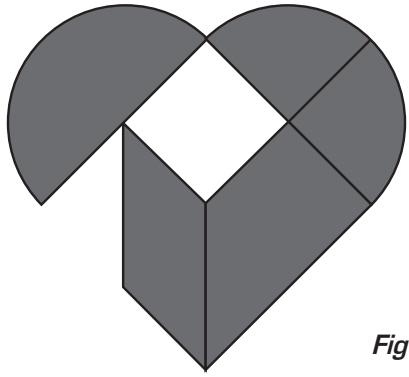
Continúa en la siguiente página

ETC	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	12.6%	47.1%	19.1%	19.4%	1.8%	2353
Soacha	12.4%	56.6%	16.3%	13.8%	0.9%	3934
Sogamoso	11.7%	56.7%	16.3%	14.4%	1.0%	1046
Soledad	11.3%	57.4%	15.2%	14.5%	1.6%	3730
Sucre	12.3%	41.5%	19.8%	23.0%	3.4%	5959
Tolima	12.0%	49.7%	18.7%	17.7%	1.8%	6918
Tuluá	12.2%	56.7%	15.6%	14.4%	1.0%	1463
Tumaco	13.6%	42.9%	17.8%	20.0%	5.7%	2017
Tunja	8.3%	62.4%	14.5%	14.0%	0.7%	1403
Turbo	13.7%	44.0%	19.5%	20.5%	2.3%	1937
Uribia	12.3%	36.2%	28.1%	17.8%	5.6%	1575
Valle del Cauca	13.0%	49.0%	19.6%	16.0%	2.3%	5679
Valledupar	10.5%	54.1%	16.6%	16.5%	2.4%	3913
Vaupés	13.6%	32.0%	24.1%	24.9%	5.4%	353
Vichada	13.9%	39.0%	19.6%	25.5%	2.1%	777
Villavicencio	10.6%	56.3%	17.9%	14.3%	1.0%	3999
Yopal	12.3%	52.3%	17.0%	16.8%	1.6%	1532
Yumbo	15.3%	51.0%	17.1%	14.8%	1.7%	869
Zipaquirá	8.1%	66.8%	12.7%	11.8%	0.6%	963
Colombia	11.7%	52.6%	17.5%	16.1%	2.1%	356848

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 24.

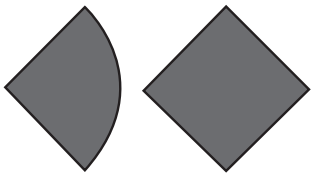
Para armar la figura del corazón faltan 2 fichas.



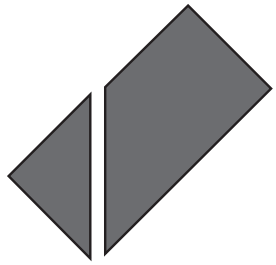
Figura

¿Cuáles son las 2 fichas que faltan?

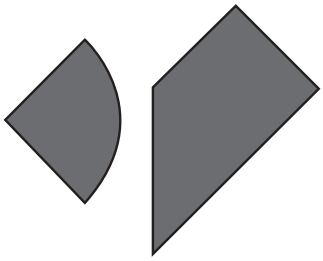
A.



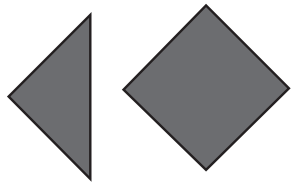
B.



C.



D.



• Estructura

Competencia	Espacial - Métrico
Componente	Resolución
Afirmación	Usar propiedades geométricas para solucionar problemas relativos a diseño y construcción de figuras planas.
Nivel de desempeño	Mínimo
Respuesta Correcta	D

• Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	18.0%	7.6%	6.4%	62.1%	6.0%	672
Antioquia	15.7%	4.9%	4.2%	72.3%	2.9%	20211
Apartadó	17.8%	4.9%	5.4%	68.4%	3.6%	1149
Arauca	12.3%	3.8%	3.5%	78.9%	1.5%	2390
Armenia	12.0%	3.8%	2.5%	79.5%	2.2%	1624
Atlántico	14.9%	5.6%	4.6%	70.4%	4.4%	4252
Barrancabermeja	10.7%	4.8%	2.6%	79.7%	2.3%	1947
Barranquilla	12.5%	4.2%	3.3%	78.1%	1.9%	8006
Bello	13.7%	4.1%	3.6%	76.5%	2.1%	3173
Bogotá, D.C.	9.4%	2.3%	1.8%	84.9%	1.6%	45991
Bolívar	18.3%	8.8%	7.4%	61.5%	4.1%	8606
Boyacá	13.6%	3.7%	2.6%	79.1%	1.0%	6337
Bucaramanga	9.1%	2.8%	1.9%	85.3%	0.9%	3695
Buenaventura	15.0%	6.5%	6.1%	68.8%	3.6%	3423
Buga	10.6%	2.8%	3.2%	80.5%	2.9%	687
Caldas	13.6%	3.8%	3.2%	77.8%	1.5%	4030
Cali	12.3%	3.4%	2.4%	79.7%	2.2%	13697
Caquetá	15.1%	4.1%	4.2%	74.1%	2.6%	2279
Cartagena	13.2%	5.1%	4.4%	74.3%	3.0%	7633
Cartago	11.1%	3.3%	4.1%	79.1%	2.4%	836
Casanare	13.3%	4.2%	2.7%	78.8%	1.0%	2496
Cauca	15.7%	4.9%	3.9%	72.7%	2.9%	9587
Cesar	14.4%	5.6%	4.5%	73.2%	2.3%	6409
Chocó	16.3%	9.5%	8.5%	62.1%	3.6%	3280
Chía	9.6%	2.2%	2.2%	84.9%	1.1%	1176
Ciénaga	16.5%	6.3%	4.3%	66.2%	6.7%	1037
Cundinamarca	12.4%	2.9%	2.2%	81.6%	0.9%	11700
Córdoba	17.3%	7.2%	6.1%	66.6%	2.8%	10335
Cúcuta	11.4%	3.0%	2.5%	82.3%	0.8%	5930
Dosquebradas	13.3%	3.1%	2.1%	79.4%	2.1%	1309
Duitama	11.9%	1.9%	1.9%	84.3%	0.1%	909
Envigado	11.2%	2.8%	2.6%	82.3%	1.1%	923
Facatativá	10.2%	2.6%	2.4%	84.1%	0.7%	964
Florencia	11.7%	4.6%	3.7%	78.5%	1.5%	1518
Floridablanca	9.1%	1.9%	1.6%	86.6%	0.8%	1777
Fusagasugá	11.0%	3.0%	2.1%	82.6%	1.3%	764
Girardot	12.1%	3.5%	3.7%	79.0%	1.7%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	10.5%	3.6%	2.6%	82.8%	0.5%	1125
Guainía	16.3%	7.9%	4.6%	67.8%	3.3%	453
Guaviare	14.9%	3.6%	4.0%	75.2%	2.3%	698
Huila	14.3%	3.5%	3.1%	77.6%	1.6%	5892
Ibagué	10.5%	3.8%	2.4%	81.9%	1.4%	3696
Ipiales	13.0%	2.2%	2.5%	81.6%	0.6%	946
Itagüí	13.9%	4.1%	4.1%	76.8%	1.1%	1293
Jamundí	13.6%	5.5%	2.8%	75.2%	2.8%	778
La Guajira	15.3%	7.3%	7.3%	66.8%	3.4%	3448
Lorica	16.9%	8.2%	7.1%	64.0%	3.9%	1032
Magangué	21.2%	7.7%	7.8%	58.9%	4.4%	1157
Magdalena	16.7%	8.0%	6.8%	64.3%	4.3%	6946
Maicao	16.2%	8.0%	7.4%	64.7%	3.7%	1720
Malambo	8.3%	5.1%	2.9%	80.3%	3.3%	818
Manizales	13.1%	3.3%	2.2%	80.0%	1.3%	2010
Medellín	13.8%	4.0%	3.2%	76.5%	2.5%	13569
Meta	13.6%	3.5%	3.6%	78.1%	1.2%	4477
Montería	15.7%	5.9%	6.1%	69.9%	2.4%	3934
Mosquera	10.5%	3.0%	1.8%	83.2%	1.5%	993
Nariño	13.0%	4.2%	3.2%	76.3%	3.3%	6223
Neiva	14.1%	3.4%	2.8%	78.4%	1.3%	2784
Norte de Santander	12.7%	3.3%	2.7%	80.1%	1.2%	6458
Palmira	13.3%	3.9%	3.6%	77.9%	1.3%	2052
Pasto	11.7%	2.6%	1.9%	82.8%	0.9%	2530
Pereira	11.0%	3.2%	2.0%	81.6%	2.1%	2982
Piedecuesta	10.3%	2.8%	2.0%	83.1%	1.7%	996
Pitalito	10.8%	3.4%	3.4%	80.5%	1.9%	1194
Popayán	11.8%	2.9%	2.6%	80.8%	1.9%	2035
Putumayo	14.3%	4.1%	3.7%	76.2%	1.7%	3086
Quibdó	15.3%	8.5%	5.7%	66.4%	4.1%	1033
Quindío	10.3%	4.5%	2.8%	79.4%	3.0%	1538
Riohacha	15.8%	7.1%	5.7%	68.0%	3.3%	2217
Rionegro	14.8%	3.9%	1.2%	79.5%	0.7%	764
Risaralda	11.9%	4.8%	3.3%	76.6%	3.4%	2033
Sabaneta	10.1%	0.8%	2.5%	81.8%	4.8%	395
Sahagún	17.2%	6.0%	4.9%	71.2%	0.7%	873
San Andrés	18.0%	6.7%	6.7%	66.6%	2.0%	401
Santa Marta	14.5%	4.2%	3.6%	75.4%	2.4%	4204
Santander	13.7%	4.0%	3.1%	77.8%	1.5%	6185

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	15.1%	4.5%	3.6%	74.7%	2.0%	2353
Soacha	12.4%	2.7%	2.4%	81.5%	1.0%	3934
Sogamoso	12.7%	2.3%	2.9%	81.4%	0.8%	1046
Soledad	11.2%	4.1%	3.1%	79.8%	1.7%	3730
Sucre	18.9%	7.1%	6.7%	64.0%	3.3%	5959
Tolima	15.2%	5.0%	3.9%	73.9%	2.0%	6918
Tuluá	12.2%	5.1%	2.6%	79.0%	1.0%	1463
Tumaco	14.9%	10.0%	7.8%	62.0%	5.3%	2017
Tunja	10.3%	3.4%	2.0%	83.6%	0.7%	1403
Turbo	18.6%	7.9%	6.4%	64.7%	2.4%	1937
Uribia	18.3%	12.6%	12.8%	50.9%	5.5%	1575
Valle del Cauca	12.5%	3.9%	3.3%	78.1%	2.2%	5679
Valledupar	13.0%	4.5%	3.9%	76.1%	2.5%	3913
Vaupés	21.2%	11.3%	9.9%	52.4%	5.1%	353
Vichada	18.7%	7.7%	7.6%	62.5%	3.5%	777
Villavicencio	10.7%	3.1%	2.5%	82.5%	1.2%	3999
Yopal	10.3%	3.3%	2.6%	82.2%	1.5%	1532
Yumbo	11.4%	3.5%	2.5%	80.8%	1.8%	869
Zipaquirá	10.2%	2.1%	1.8%	85.6%	0.4%	963
Colombia	13.3%	4.4%	3.7%	76.4%	2.2%	356848

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 25.

La tabla muestra los puntos obtenidos por 3 estudiantes en clase de matemáticas y la cantidad de caritas que representan los puntos ganados.

Estudiante	*Puntos*	*Cantidad de caritas ganadas*
Camilo	15 puntos	☺ ☺ ☺
Daniel	10 puntos	☺ ☺
Laura	20 puntos	☺ ☺ ☺ ☺

Tabla

¿Cuántos puntos representan una carita?

A. Cuatro puntos.
B. Cinco puntos.
C. Nueve puntos.
D. Quince puntos.

• Estructura

Competencia	Comunicación
Componente	Numérico - Variacional
Afirmación	Reconocer equivalencias entre diferentes tipos de representaciones relacionadas con números.
Nivel de desempeño	Avanzado
Respuesta Correcta	B

• Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	22.3%	28.1%	20.4%	24.6%	4.6%	672
Antioquia	21.3%	42.2%	13.1%	21.1%	2.3%	20211
Apartadó	23.6%	39.0%	14.3%	20.6%	2.5%	1149
Arauca	20.4%	46.9%	11.9%	19.9%	0.9%	2390
Armenia	21.6%	47.5%	11.4%	17.5%	2.0%	1624
Atlántico	21.4%	39.8%	13.1%	22.2%	3.5%	4252
Barrancabermeja	18.6%	49.9%	12.5%	17.4%	1.7%	1947
Barranquilla	19.9%	50.1%	11.8%	16.4%	1.7%	8006
Bello	22.5%	47.7%	11.6%	16.6%	1.6%	3173
Bogotá, D.C.	18.7%	56.5%	9.7%	13.7%	1.4%	45991
Bolívar	21.8%	34.2%	15.7%	25.2%	3.0%	8606
Boyacá	19.1%	51.7%	10.8%	17.4%	1.0%	6337
Bucaramanga	16.8%	59.8%	10.2%	12.4%	0.8%	3695
Buenaventura	18.6%	45.8%	12.3%	20.9%	2.5%	3423
Buga	23.1%	46.1%	9.2%	19.1%	2.5%	687
Caldas	19.4%	47.6%	12.2%	19.6%	1.2%	4030
Cali	19.6%	50.4%	11.2%	17.0%	1.9%	13697
Caquetá	18.8%	42.3%	12.4%	24.1%	2.4%	2279
Cartagena	19.1%	48.5%	12.7%	17.0%	2.8%	7633
Cartago	21.2%	46.4%	12.1%	18.8%	1.6%	836
Casanare	22.0%	44.8%	13.2%	19.4%	0.7%	2496
Cauca	17.2%	45.8%	12.7%	22.2%	2.2%	9587
Cesar	19.3%	42.5%	13.3%	23.0%	1.9%	6409
Chocó	20.1%	39.2%	13.7%	24.0%	3.0%	3280
Chía	17.4%	59.2%	8.8%	13.8%	0.9%	1176
Ciénaga	22.8%	39.3%	11.3%	21.9%	4.7%	1037
Cundinamarca	17.9%	54.2%	11.3%	15.8%	0.8%	11700
Córdoba	21.5%	36.5%	15.6%	24.0%	2.4%	10335
Cúcuta	19.1%	53.0%	12.5%	14.6%	0.7%	5930
Dosquebradas	19.4%	45.7%	12.0%	21.4%	1.5%	1309
Duitama	16.4%	65.8%	6.8%	10.9%	0.1%	909
Envigado	15.1%	63.4%	10.2%	10.3%	1.1%	923
Facatativá	18.0%	54.5%	11.2%	15.7%	0.6%	964
Florencia	20.6%	46.4%	11.9%	19.7%	1.4%	1518
Floridablanca	15.4%	65.6%	8.9%	9.3%	0.8%	1777
Fusagasugá	19.0%	56.3%	10.3%	13.2%	1.2%	764
Girardot	24.4%	42.5%	12.9%	18.9%	1.3%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	20.0%	54.6%	10.6%	14.1%	0.7%	1125
Guainía	19.6%	32.2%	16.3%	29.6%	2.2%	453
Guaviare	22.1%	39.1%	11.7%	25.1%	2.0%	698
Huila	21.4%	42.5%	12.4%	22.4%	1.3%	5892
Ibagué	18.0%	55.3%	10.4%	15.4%	0.9%	3696
Ipiales	20.1%	51.6%	11.2%	16.6%	0.5%	946
Itagüí	21.3%	49.3%	13.1%	15.6%	0.7%	1293
Jamundí	23.1%	40.1%	13.1%	21.0%	2.7%	778
La Guajira	18.0%	43.3%	13.1%	22.6%	3.0%	3448
Lorica	22.2%	38.5%	14.7%	21.6%	3.0%	1032
Magangué	23.3%	31.2%	16.8%	25.6%	3.1%	1157
Magdalena	17.7%	39.9%	14.2%	24.9%	3.3%	6946
Maicao	23.4%	33.4%	17.2%	24.0%	2.0%	1720
Malambo	15.5%	52.1%	10.5%	19.8%	2.1%	818
Manizales	18.4%	54.2%	10.5%	16.1%	0.9%	2010
Medellín	22.6%	46.1%	11.9%	17.2%	2.2%	13569
Meta	20.1%	46.5%	13.1%	19.3%	1.0%	4477
Montería	23.9%	38.7%	15.1%	20.5%	1.7%	3934
Mosquera	18.9%	53.5%	10.9%	15.3%	1.4%	993
Nariño	15.1%	51.9%	11.2%	18.8%	3.0%	6223
Neiva	20.3%	47.7%	13.5%	17.7%	0.8%	2784
Norte de Santander	19.3%	51.1%	11.4%	17.0%	1.1%	6458
Palmira	21.2%	48.6%	12.5%	16.4%	1.3%	2052
Pasto	19.0%	51.8%	12.7%	15.7%	0.7%	2530
Pereira	19.5%	51.8%	9.6%	17.3%	1.8%	2982
Piedecuesta	17.5%	58.9%	9.3%	12.4%	1.8%	996
Pitalito	20.4%	46.0%	11.7%	19.9%	1.9%	1194
Popayán	18.4%	52.0%	10.7%	17.1%	1.8%	2035
Putumayo	21.2%	41.6%	14.6%	21.1%	1.5%	3086
Quibdó	22.2%	39.7%	12.1%	22.8%	3.2%	1033
Quindío	20.3%	46.2%	10.7%	20.4%	2.4%	1538
Riohacha	20.0%	40.2%	14.2%	22.8%	2.8%	2217
Rionegro	17.3%	60.1%	10.6%	11.4%	0.7%	764
Risaralda	19.9%	43.5%	13.7%	20.3%	2.7%	2033
Sabaneta	15.9%	58.5%	10.4%	10.1%	5.1%	395
Sahagún	23.1%	39.5%	15.1%	21.8%	0.5%	873
San Andrés	24.9%	37.4%	13.0%	23.2%	1.5%	401
Santa Marta	20.9%	43.0%	12.9%	21.1%	2.2%	4204
Santander	18.0%	51.5%	10.9%	18.3%	1.3%	6185

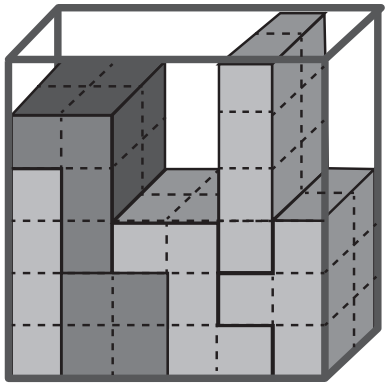
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	22.8%	43.1%	14.3%	18.3%	1.4%	2353
Soacha	20.6%	51.5%	11.6%	15.3%	0.9%	3934
Sogamoso	17.8%	58.0%	11.7%	11.7%	0.9%	1046
Soledad	18.6%	54.6%	10.0%	15.4%	1.4%	3730
Sucre	22.0%	35.6%	15.2%	24.6%	2.7%	5959
Tolima	20.9%	40.8%	13.1%	23.5%	1.7%	6918
Tuluá	21.3%	48.4%	11.7%	17.8%	0.8%	1463
Tumaco	20.3%	35.6%	12.9%	25.7%	5.5%	2017
Tunja	16.7%	61.1%	10.8%	10.8%	0.7%	1403
Turbo	22.0%	35.3%	14.0%	26.4%	2.2%	1937
Uribia	19.5%	33.1%	18.1%	25.1%	4.2%	1575
Valle del Cauca	20.5%	44.2%	12.0%	21.3%	2.1%	5679
Valledupar	18.4%	46.3%	13.2%	20.0%	2.1%	3913
Vaupés	21.5%	21.2%	20.1%	34.3%	2.8%	353
Vichada	23.0%	29.5%	17.4%	27.5%	2.6%	777
Villavicencio	19.1%	54.6%	11.1%	14.2%	1.0%	3999
Yopal	21.9%	50.6%	11.0%	15.1%	1.4%	1532
Yumbo	22.2%	45.1%	11.5%	19.9%	1.3%	869
Zipaquirá	18.5%	58.9%	9.0%	13.1%	0.5%	963
Colombia	19.8%	47.5%	12.2%	18.7%	1.8%	356848

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 26.

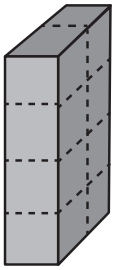
Se organizaron algunas fichas en una caja como muestra la figura.



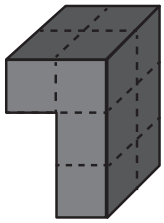
Figura

¿Cuál ficha ocupa más espacio en la caja?

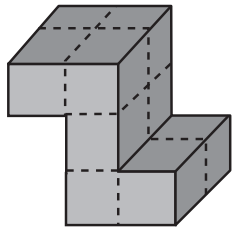
A.



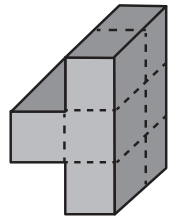
B.



C.



D.



• Estructura

Competencia	Comunicación
Componente	Espacial - Métrico
Afirmación	Identificar atributos de objetos y eventos que son susceptibles de ser medidos.
Nivel de desempeño	Avanzado
Respuesta Correcta	C

- **Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	24.9%	24.1%	39.9%	6.5%	4.6%	672
Antioquia	23.5%	16.4%	51.5%	6.1%	2.4%	20211
Apartadó	25.6%	19.1%	46.0%	6.7%	2.7%	1149
Arauca	20.8%	18.5%	52.7%	7.0%	0.9%	2390
Armenia	23.3%	17.5%	51.7%	5.6%	1.8%	1624
Atlántico	24.3%	19.8%	45.7%	6.3%	3.9%	4252
Barrancabermeja	23.4%	17.8%	50.8%	6.2%	1.7%	1947
Barranquilla	22.5%	18.3%	51.5%	5.7%	1.9%	8006
Bello	24.6%	18.0%	49.9%	5.6%	1.9%	3173
Bogotá, D.C.	23.7%	15.3%	54.6%	4.9%	1.5%	45991
Bolívar	26.4%	21.0%	41.2%	8.0%	3.4%	8606
Boyacá	24.8%	15.1%	53.6%	5.4%	1.0%	6337
Bucaramanga	22.4%	14.6%	57.1%	5.0%	0.9%	3695
Buenaventura	22.8%	17.5%	51.8%	5.0%	2.8%	3423
Buga	24.3%	18.6%	48.6%	5.5%	2.9%	687
Caldas	21.9%	16.4%	54.2%	6.2%	1.4%	4030
Cali	22.7%	17.3%	52.9%	5.2%	1.9%	13697
Caquetá	21.2%	14.3%	55.3%	6.7%	2.5%	2279
Cartagena	22.3%	17.8%	51.0%	6.1%	2.8%	7633
Cartago	24.6%	17.2%	50.6%	6.0%	1.6%	836
Casanare	23.0%	19.0%	50.9%	6.2%	0.9%	2496
Cauca	21.9%	16.6%	52.6%	6.2%	2.6%	9587
Cesar	25.5%	16.3%	50.1%	6.1%	2.1%	6409
Chocó	23.5%	19.3%	47.2%	6.9%	3.2%	3280
Chía	22.1%	15.5%	56.8%	4.8%	0.9%	1176
Ciénaga	20.1%	20.9%	45.8%	7.6%	5.6%	1037
Cundinamarca	23.2%	15.7%	54.8%	5.4%	0.9%	11700
Córdoba	25.8%	19.5%	44.8%	7.3%	2.5%	10335
Cúcuta	25.1%	18.4%	49.5%	6.0%	1.0%	5930
Dosquebradas	23.1%	18.0%	52.7%	4.5%	1.8%	1309
Duitama	22.2%	12.8%	58.3%	6.1%	0.7%	909
Envigado	23.2%	13.0%	58.5%	4.7%	0.7%	923
Facatativá	26.5%	12.8%	55.2%	5.0%	0.6%	964
Florencia	20.3%	18.4%	53.7%	5.4%	2.2%	1518
Floridablanca	22.0%	15.1%	57.9%	4.2%	0.9%	1777
Fusagasugá	26.0%	14.0%	52.7%	5.8%	1.4%	764
Girardot	23.0%	20.5%	46.8%	7.9%	1.8%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	24.1%	16.8%	52.8%	5.6%	0.7%	1125
Guainía	26.0%	17.7%	45.9%	8.8%	1.5%	453
Guaviare	20.6%	18.2%	52.7%	6.2%	2.3%	698
Huila	24.6%	17.8%	50.9%	5.3%	1.4%	5892
Ibagué	23.5%	16.6%	53.5%	5.0%	1.4%	3696
Ipiales	21.0%	19.1%	53.5%	5.5%	0.8%	946
Itagüí	26.5%	16.4%	48.1%	7.9%	1.1%	1293
Jamundí	25.7%	17.2%	48.1%	6.2%	2.8%	778
La Guajira	22.4%	18.4%	48.6%	7.4%	3.1%	3448
Lorica	27.4%	19.4%	42.4%	7.8%	3.0%	1032
Magangué	26.8%	21.3%	40.4%	7.6%	3.8%	1157
Magdalena	23.4%	18.6%	47.5%	7.0%	3.7%	6946
Maicao	25.9%	19.5%	43.1%	8.7%	2.7%	1720
Malambo	22.7%	12.8%	55.1%	6.7%	2.6%	818
Manizales	22.3%	17.7%	53.3%	5.6%	1.2%	2010
Medellín	24.3%	17.6%	50.2%	5.4%	2.5%	13569
Meta	21.1%	17.4%	54.3%	6.0%	1.1%	4477
Montería	26.1%	19.5%	45.6%	6.7%	2.1%	3934
Mosquera	23.3%	16.2%	54.8%	4.3%	1.4%	993
Nariño	20.1%	14.3%	58.4%	4.4%	2.9%	6223
Neiva	24.3%	18.8%	50.6%	5.5%	0.8%	2784
Norte de Santander	23.5%	14.9%	54.9%	5.6%	1.2%	6458
Palmira	27.0%	18.9%	47.7%	5.1%	1.3%	2052
Pasto	22.9%	16.3%	54.5%	5.5%	0.8%	2530
Pereira	21.3%	17.0%	54.6%	5.0%	2.0%	2982
Piedecuesta	21.9%	15.3%	56.0%	5.0%	1.8%	996
Pitalito	23.7%	15.1%	53.4%	5.9%	1.9%	1194
Popayán	20.6%	15.9%	57.2%	4.5%	1.8%	2035
Putumayo	22.3%	17.0%	52.3%	6.7%	1.7%	3086
Quibdó	28.4%	19.5%	42.4%	6.2%	3.6%	1033
Quindío	22.7%	17.0%	53.2%	4.9%	2.2%	1538
Riohacha	25.4%	21.0%	43.3%	7.3%	3.0%	2217
Rionegro	21.9%	13.1%	58.9%	5.6%	0.5%	764
Risaralda	23.8%	15.4%	51.2%	6.5%	3.1%	2033
Sabaneta	17.0%	11.9%	61.0%	4.6%	5.6%	395
Sahagún	26.0%	16.2%	48.3%	8.7%	0.8%	873
San Andrés	25.2%	20.7%	43.4%	8.5%	2.2%	401
Santa Marta	24.2%	18.1%	49.5%	6.2%	2.0%	4204
Santander	23.3%	14.7%	54.9%	5.7%	1.3%	6185

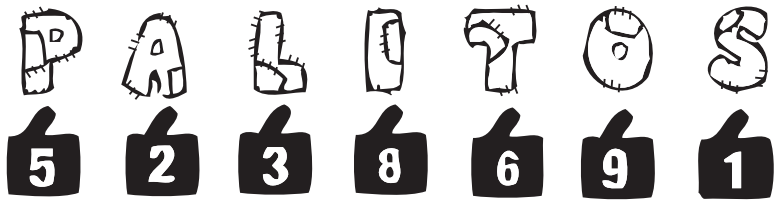
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	26.4%	20.1%	46.3%	5.7%	1.5%	2353
Soacha	25.6%	16.7%	51.7%	5.1%	0.9%	3934
Sogamoso	22.2%	17.5%	53.3%	6.4%	0.7%	1046
Soledad	22.0%	19.2%	51.5%	5.7%	1.6%	3730
Sucre	28.1%	19.3%	42.3%	7.4%	2.9%	5959
Tolima	24.0%	17.6%	50.5%	6.1%	1.7%	6918
Tuluá	24.5%	17.6%	51.5%	5.5%	0.9%	1463
Tumaco	25.6%	17.8%	44.3%	6.9%	5.5%	2017
Tunja	22.0%	14.3%	57.9%	5.0%	0.9%	1403
Turbo	27.1%	19.3%	44.0%	7.4%	2.2%	1937
Uribia	23.8%	23.4%	39.2%	8.5%	5.0%	1575
Valle del Cauca	22.8%	18.2%	51.1%	5.9%	2.0%	5679
Valledupar	23.6%	18.0%	50.0%	6.2%	2.1%	3913
Vaupés	26.1%	21.5%	39.4%	9.9%	3.1%	353
Vichada	22.8%	20.2%	48.8%	5.7%	2.6%	777
Villavicencio	21.3%	16.7%	55.3%	5.6%	1.0%	3999
Yopal	20.7%	18.5%	53.5%	6.0%	1.4%	1532
Yumbo	22.6%	18.6%	51.0%	6.3%	1.5%	869
Zipaquirá	21.3%	15.4%	58.0%	4.7%	0.6%	963
Colombia	23.6%	17.2%	51.3%	5.9%	2.0%	356848

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

- **Pregunta 27.**

A continuación se muestra el número asignado a algunas letras del abecedario.



¿Cuáles son los números asignados a las letras de la palabra

?

A.

B.

C.

D.

- **Estructura**

Competencia	Comunicación
Componente	Numérico - Variacional
Afirmación	Reconocer el uso de números naturales en diferentes contextos.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	D

• Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	17.3%	16.5%	11.6%	50.4%	4.2%	672
Antioquia	17.2%	10.8%	9.1%	60.1%	2.8%	20211
Apartadó	19.1%	10.5%	10.1%	57.1%	3.2%	1149
Arauca	15.8%	9.5%	7.8%	65.5%	1.4%	2390
Armenia	15.5%	8.8%	7.6%	65.7%	2.5%	1624
Atlántico	16.9%	12.2%	12.0%	54.4%	4.5%	4252
Barrancabermeja	15.4%	8.9%	7.6%	66.3%	1.9%	1947
Barranquilla	15.6%	8.2%	8.0%	66.2%	2.0%	8006
Bello	16.8%	8.5%	8.3%	64.1%	2.2%	3173
Bogotá, D.C.	11.3%	5.6%	5.3%	76.0%	1.8%	45991
Bolívar	19.8%	16.5%	14.1%	45.6%	4.0%	8606
Boyacá	13.4%	8.7%	6.6%	70.0%	1.3%	6337
Bucaramanga	11.3%	5.5%	5.8%	76.3%	1.1%	3695
Buenaventura	15.8%	10.2%	8.8%	62.0%	3.2%	3423
Buga	18.2%	8.4%	8.3%	61.7%	3.3%	687
Caldas	16.1%	9.1%	7.0%	66.4%	1.4%	4030
Cali	14.6%	6.9%	6.9%	69.5%	2.1%	13697
Caquetá	16.0%	12.1%	8.1%	60.9%	2.9%	2279
Cartagena	14.9%	10.1%	9.1%	62.6%	3.2%	7633
Cartago	17.8%	7.1%	9.7%	63.9%	1.6%	836
Casanare	16.4%	10.1%	8.9%	63.5%	1.2%	2496
Cauca	14.3%	10.8%	8.2%	63.9%	2.8%	9587
Cesar	15.8%	11.6%	9.4%	60.9%	2.4%	6409
Chocó	14.8%	16.1%	11.2%	54.2%	3.8%	3280
Chía	11.8%	4.3%	4.9%	77.7%	1.2%	1176
Ciénaga	16.3%	13.1%	11.4%	54.1%	5.1%	1037
Cundinamarca	13.5%	7.4%	5.8%	72.1%	1.2%	11700
Córdoba	17.9%	14.5%	12.9%	51.6%	3.1%	10335
Cúcuta	14.5%	7.3%	7.0%	70.1%	1.2%	5930
Dosquebradas	14.4%	6.5%	7.4%	70.1%	1.5%	1309
Duitama	8.7%	4.5%	4.6%	81.7%	0.4%	909
Envigado	10.2%	5.4%	5.3%	77.9%	1.2%	923
Facatativá	13.4%	4.8%	5.8%	75.1%	0.9%	964
Florencia	16.5%	8.9%	7.3%	65.2%	2.0%	1518
Floridablanca	9.7%	5.4%	5.1%	78.7%	1.1%	1777
Fusagasugá	14.0%	6.3%	8.0%	69.9%	1.8%	764
Girardot	19.4%	9.2%	9.9%	59.5%	2.1%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	15.1%	7.2%	6.5%	70.5%	0.7%	1125
Guainía	20.1%	17.0%	11.9%	48.6%	2.4%	453
Guaviare	19.1%	10.3%	8.2%	59.3%	3.2%	698
Huila	15.9%	9.4%	8.4%	64.9%	1.4%	5892
Ibagué	13.6%	7.7%	6.6%	70.6%	1.4%	3696
Ipiales	13.1%	6.7%	6.9%	72.6%	0.7%	946
Itagüí	15.7%	8.5%	8.9%	65.8%	1.1%	1293
Jamundí	18.0%	10.4%	9.0%	59.8%	2.8%	778
La Guajira	14.4%	13.3%	11.6%	57.3%	3.4%	3448
Lorica	17.9%	15.0%	12.8%	50.3%	4.0%	1032
Magangué	21.6%	14.8%	16.0%	43.6%	4.0%	1157
Magdalena	16.1%	14.6%	11.7%	53.5%	4.1%	6946
Maicao	17.8%	13.8%	14.5%	51.0%	2.9%	1720
Malambo	13.8%	10.3%	6.6%	67.2%	2.1%	818
Manizales	13.6%	7.8%	5.8%	71.5%	1.2%	2010
Medellín	17.8%	8.2%	8.2%	63.0%	2.8%	13569
Meta	15.7%	9.6%	7.9%	65.4%	1.3%	4477
Montería	19.1%	13.2%	10.9%	54.2%	2.5%	3934
Mosquera	13.7%	5.9%	6.4%	72.6%	1.3%	993
Nariño	11.7%	9.0%	6.8%	69.4%	3.1%	6223
Neiva	16.9%	8.6%	7.4%	65.6%	1.5%	2784
Norte de Santander	13.0%	8.0%	7.1%	70.3%	1.5%	6458
Palmira	16.1%	7.8%	7.2%	67.6%	1.3%	2052
Pasto	15.8%	7.8%	7.0%	68.4%	1.0%	2530
Pereira	14.2%	6.8%	5.9%	70.7%	2.4%	2982
Piedecuesta	11.1%	6.5%	6.0%	74.3%	2.0%	996
Pitalito	13.2%	9.0%	7.3%	68.5%	1.9%	1194
Popayán	14.0%	7.6%	6.5%	69.9%	1.9%	2035
Putumayo	15.2%	10.2%	9.7%	62.7%	2.3%	3086
Quibdó	18.8%	13.0%	11.4%	52.8%	4.1%	1033
Quindío	17.0%	9.3%	8.3%	62.9%	2.5%	1538
Riohacha	17.5%	11.9%	10.9%	56.6%	3.2%	2217
Rionegro	12.8%	6.9%	6.4%	73.0%	0.8%	764
Risaralda	13.6%	9.1%	9.1%	64.9%	3.2%	2033
Sabaneta	10.4%	7.1%	5.6%	71.9%	5.1%	395
Sahagún	17.3%	13.1%	11.6%	56.4%	1.7%	873
San Andrés	21.7%	10.7%	13.2%	51.4%	3.0%	401
Santa Marta	17.1%	8.9%	9.0%	62.5%	2.5%	4204
Santander	12.5%	8.6%	7.6%	69.5%	1.7%	6185

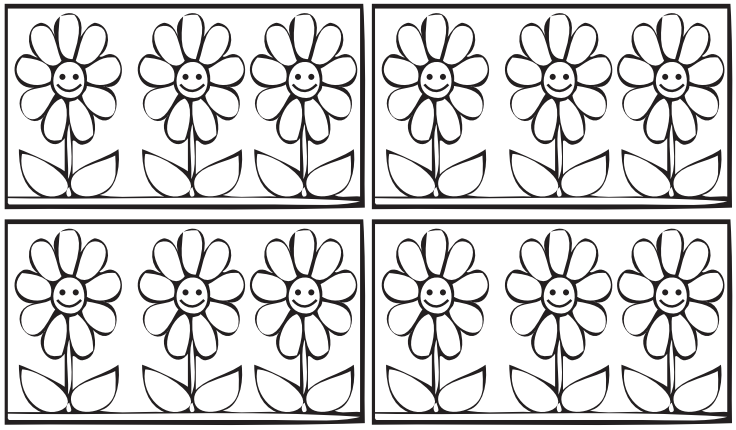
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	19.0%	12.2%	9.4%	57.2%	2.1%	2353
Soacha	13.8%	6.3%	5.9%	72.5%	1.4%	3934
Sogamoso	13.4%	6.1%	4.6%	75.1%	0.8%	1046
Soledad	14.5%	7.5%	6.9%	68.9%	2.2%	3730
Sucre	18.5%	15.3%	14.2%	48.3%	3.6%	5959
Tolima	16.6%	10.2%	10.2%	61.0%	2.1%	6918
Tuluá	17.1%	7.4%	6.3%	67.4%	1.8%	1463
Tumaco	17.3%	14.0%	13.6%	49.0%	6.1%	2017
Tunja	11.8%	5.7%	4.8%	76.5%	1.2%	1403
Turbo	21.1%	13.3%	12.2%	50.3%	3.1%	1937
Uribia	14.7%	18.2%	18.2%	44.1%	4.9%	1575
Valle del Cauca	17.0%	9.9%	8.1%	62.4%	2.6%	5679
Valledupar	16.0%	9.4%	8.8%	63.3%	2.6%	3913
Vaupés	21.8%	21.5%	14.2%	38.0%	4.5%	353
Vichada	18.9%	19.0%	10.9%	48.6%	2.4%	777
Villavicencio	14.5%	7.5%	6.7%	69.8%	1.5%	3999
Yopal	15.6%	8.1%	8.0%	66.6%	1.8%	1532
Yumbo	16.2%	9.8%	8.5%	63.1%	2.4%	869
Zipaquirá	9.4%	4.4%	3.8%	81.5%	0.8%	963
Colombia	15.1%	9.4%	8.3%	64.9%	2.3%	356848

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 28.

La profesora de grado tercero indica que la cantidad de flores que se presentan en la figura se puede expresar como 4 x 3.



Figura

Otra expresión que representa la cantidad de flores que hay en la figura es

A. 6 x 6
B. 2 x 6
C. 3 x 2
D. 3 x 3

• Estructura

Competencia	Razonamiento
Componente	Numérico - Variacional
Afirmación	Generar equivalencias entre expresiones numéricas.
Nivel de desempeño	Avanzado
Respuesta Correcta	B

- **Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	24.6%	38.5%	12.1%	19.8%	5.1%	672
Antioquia	26.2%	44.5%	8.1%	18.4%	2.9%	20211
Apartadó	30.7%	39.3%	8.8%	17.9%	3.2%	1149
Arauca	21.3%	55.9%	7.4%	13.8%	1.5%	2390
Armenia	27.1%	46.1%	8.6%	15.7%	2.5%	1624
Atlántico	23.6%	44.7%	8.5%	18.7%	4.4%	4252
Barrancabermeja	22.0%	51.6%	8.1%	16.4%	2.0%	1947
Barranquilla	22.8%	52.7%	6.8%	15.6%	2.0%	8006
Bello	29.4%	43.8%	7.9%	16.5%	2.4%	3173
Bogotá, D.C.	22.1%	53.0%	7.2%	15.8%	2.0%	45991
Bolívar	26.3%	40.1%	10.0%	19.4%	4.1%	8606
Boyacá	21.8%	52.2%	8.2%	16.6%	1.2%	6337
Bucaramanga	19.8%	57.2%	7.6%	14.3%	1.1%	3695
Buenaventura	24.9%	47.9%	7.6%	16.3%	3.3%	3423
Buga	24.7%	47.9%	8.4%	15.4%	3.5%	687
Caldas	21.4%	55.6%	6.9%	14.5%	1.6%	4030
Cali	24.2%	50.3%	7.2%	15.9%	2.4%	13697
Caquetá	23.5%	48.5%	7.9%	17.3%	2.8%	2279
Cartagena	21.9%	51.4%	8.1%	15.3%	3.3%	7633
Cartago	22.1%	49.3%	9.9%	16.1%	2.5%	836
Casanare	23.0%	50.2%	9.5%	16.3%	1.0%	2496
Cauca	19.1%	55.6%	6.7%	15.7%	3.0%	9587
Cesar	23.7%	49.1%	7.6%	17.3%	2.3%	6409
Chocó	20.2%	49.7%	10.8%	15.2%	4.1%	3280
Chía	23.7%	51.0%	8.5%	15.5%	1.3%	1176
Ciénaga	24.0%	44.9%	7.4%	17.6%	6.0%	1037
Cundinamarca	20.4%	56.0%	7.6%	15.0%	1.0%	11700
Córdoba	25.0%	43.5%	9.8%	18.6%	3.0%	10335
Cúcuta	22.4%	53.8%	7.5%	15.4%	1.0%	5930
Dosquebradas	26.2%	48.8%	7.6%	15.9%	1.5%	1309
Duitama	17.1%	61.4%	7.9%	13.3%	0.3%	909
Envigado	22.2%	54.8%	7.3%	14.2%	1.5%	923
Facatativá	22.3%	56.2%	6.0%	14.6%	0.8%	964
Florencia	24.6%	48.6%	8.4%	16.3%	2.2%	1518
Floridablanca	20.7%	57.2%	7.4%	13.9%	0.8%	1777
Fusagasugá	19.8%	56.3%	7.9%	14.3%	1.8%	764
Girardot	23.3%	47.6%	8.8%	18.5%	1.8%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	23.2%	54.3%	8.1%	13.2%	1.2%	1125
Guainía	24.3%	48.6%	9.5%	13.9%	3.8%	453
Guaviare	24.2%	47.4%	8.6%	17.2%	2.6%	698
Huila	23.5%	50.0%	7.8%	17.2%	1.4%	5892
Ibagué	22.4%	54.3%	6.3%	15.6%	1.4%	3696
Ipiales	19.0%	59.0%	6.9%	14.2%	1.0%	946
Itagüí	29.4%	45.2%	8.7%	15.6%	1.1%	1293
Jamundí	27.2%	43.8%	8.6%	17.9%	2.4%	778
La Guajira	20.8%	50.1%	8.8%	16.4%	3.9%	3448
Lorica	21.8%	45.9%	8.8%	20.0%	3.5%	1032
Magangué	27.8%	37.7%	10.5%	18.8%	5.2%	1157
Magdalena	22.9%	47.0%	9.1%	16.6%	4.4%	6946
Maicao	25.8%	42.5%	9.4%	19.2%	3.1%	1720
Malambo	17.8%	54.3%	7.0%	17.1%	3.8%	818
Manizales	21.3%	56.1%	6.7%	14.4%	1.4%	2010
Medellín	28.6%	42.6%	8.7%	17.3%	2.8%	13569
Meta	22.3%	52.3%	7.8%	16.2%	1.4%	4477
Montería	25.8%	42.4%	10.2%	19.3%	2.3%	3934
Mosquera	26.3%	46.3%	7.2%	18.3%	1.9%	993
Nariño	17.9%	56.7%	6.4%	15.7%	3.2%	6223
Neiva	22.8%	52.2%	7.7%	16.2%	1.1%	2784
Norte de Santander	21.5%	55.8%	6.6%	14.9%	1.2%	6458
Palmira	24.5%	48.9%	8.3%	16.9%	1.4%	2052
Pasto	21.0%	52.1%	8.2%	17.7%	1.0%	2530
Pereira	22.7%	52.1%	6.3%	16.3%	2.5%	2982
Piedecuesta	17.7%	59.8%	6.8%	13.6%	2.1%	996
Pitalito	23.6%	51.8%	7.2%	15.1%	2.3%	1194
Popayán	19.5%	58.3%	5.8%	14.5%	1.9%	2035
Putumayo	22.0%	50.8%	8.3%	16.8%	2.1%	3086
Quibdó	20.4%	49.5%	8.7%	17.5%	3.9%	1033
Quindío	25.3%	45.6%	8.0%	18.6%	2.5%	1538
Riohacha	24.1%	48.8%	8.4%	16.0%	2.7%	2217
Rionegro	19.5%	56.7%	7.5%	15.2%	1.2%	764
Risaralda	20.9%	50.5%	8.9%	17.1%	2.7%	2033
Sabaneta	22.8%	50.9%	5.3%	14.7%	6.3%	395
Sahagún	29.2%	40.9%	10.2%	18.7%	1.0%	873
San Andrés	30.2%	36.4%	13.2%	16.5%	3.7%	401
Santa Marta	24.0%	49.9%	7.8%	15.6%	2.7%	4204
Santander	19.8%	56.3%	6.4%	15.9%	1.6%	6185

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	26.6%	42.9%	9.3%	19.4%	1.8%	2353
Soacha	22.5%	52.3%	7.8%	16.0%	1.3%	3934
Sogamoso	20.8%	54.4%	9.0%	14.8%	1.0%	1046
Soledad	23.0%	51.7%	7.8%	15.3%	2.1%	3730
Sucre	24.5%	44.6%	9.7%	17.6%	3.7%	5959
Tolima	22.3%	50.3%	8.1%	17.3%	2.0%	6918
Tuluá	23.2%	52.2%	6.6%	16.4%	1.6%	1463
Tumaco	23.4%	42.4%	9.4%	18.5%	6.2%	2017
Tunja	20.3%	54.3%	8.4%	16.3%	0.7%	1403
Turbo	27.6%	42.3%	9.1%	18.5%	2.5%	1937
Uribia	22.6%	40.7%	13.3%	17.8%	5.6%	1575
Valle del Cauca	23.9%	48.9%	8.0%	16.7%	2.6%	5679
Valledupar	21.0%	54.3%	6.8%	15.5%	2.4%	3913
Vaupés	25.2%	37.4%	13.0%	20.1%	4.2%	353
Vichada	23.6%	47.0%	9.1%	17.4%	3.0%	777
Villavicencio	21.8%	54.9%	7.8%	14.2%	1.4%	3999
Yopal	22.8%	50.3%	8.3%	17.0%	1.7%	1532
Yumbo	25.3%	47.8%	7.8%	16.9%	2.2%	869
Zipaquirá	16.4%	65.1%	6.0%	11.8%	0.6%	963
Colombia	23.1%	50.2%	7.9%	16.4%	2.4%	356848

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 29.

La tabla muestra la cantidad de niños que practican cada deporte.

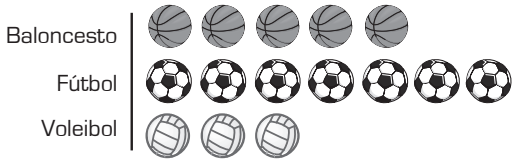
Deporte	*Cantidad de niños*
Baloncesto	5 niños
Fútbol	7 niños
Voleibol	3 niños

Tabla

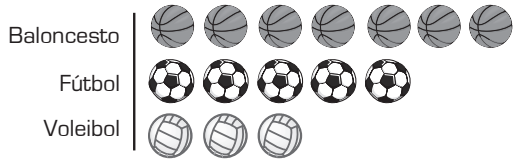
¿Cuál de los siguientes gráficos muestra la información que corresponde a la tabla?

Cada balón representa un niño

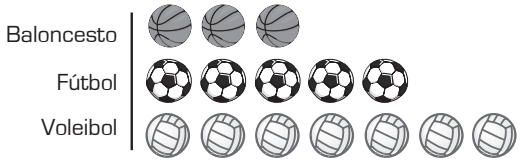
A.



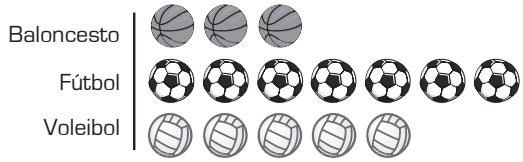
B.



C.



D.



• Estructura

Competencia	Comunicación
Componente	Aleatorio
Afirmación	Representar un conjunto de datos a partir de un diagrama de barras e interpretar lo que un diagrama de barras determinado representa.
Nivel de desempeño	Mínimo
Respuesta Correcta	A

- **Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	59.2%	15.9%	10.0%	8.8%	6.1%	672
Antioquia	72.0%	9.6%	8.3%	7.5%	2.7%	20211
Apartadó	67.2%	11.1%	9.5%	8.8%	3.5%	1149
Arauca	75.8%	10.1%	7.1%	6.0%	1.0%	2390
Armenia	80.1%	6.5%	6.2%	4.9%	2.2%	1624
Atlántico	67.0%	11.4%	8.7%	8.5%	4.4%	4252
Barrancabermeja	78.2%	7.4%	6.0%	6.6%	1.8%	1947
Barranquilla	78.3%	7.8%	6.4%	5.5%	1.9%	8006
Bello	80.2%	6.7%	5.8%	5.4%	1.9%	3173
Bogotá, D.C.	87.5%	4.2%	3.5%	3.1%	1.7%	45991
Bolívar	56.7%	15.7%	13.0%	11.0%	3.6%	8606
Boyacá	80.3%	7.5%	6.2%	4.9%	1.1%	6337
Bucaramanga	88.2%	4.3%	3.8%	3.0%	0.7%	3695
Buenaventura	72.1%	10.8%	7.9%	6.2%	3.1%	3423
Buga	78.3%	7.4%	5.4%	6.0%	2.9%	687
Caldas	77.9%	7.1%	7.0%	6.6%	1.4%	4030
Cali	83.1%	6.0%	4.9%	4.1%	2.0%	13697
Caquetá	71.8%	10.5%	7.7%	7.7%	2.3%	2279
Cartagena	73.8%	9.6%	7.1%	6.4%	2.9%	7633
Cartago	76.2%	9.8%	6.1%	6.0%	1.9%	836
Casanare	75.5%	9.1%	7.7%	6.8%	0.9%	2496
Cauca	73.0%	9.2%	7.6%	7.7%	2.5%	9587
Cesar	69.5%	10.9%	9.4%	7.8%	2.3%	6409
Chocó	58.8%	16.4%	11.8%	9.8%	3.3%	3280
Chía	89.5%	3.0%	3.4%	3.0%	1.2%	1176
Ciénaga	64.4%	14.4%	8.4%	7.6%	5.2%	1037
Cundinamarca	84.1%	5.6%	5.2%	4.2%	0.9%	11700
Córdoba	60.4%	14.2%	11.9%	10.4%	3.0%	10335
Cúcuta	83.5%	6.1%	5.0%	4.3%	1.1%	5930
Dosquebradas	83.3%	6.1%	4.7%	4.8%	1.1%	1309
Duitama	88.0%	4.3%	3.4%	3.9%	0.4%	909
Envigado	86.0%	4.9%	4.1%	3.0%	2.0%	923
Facatativá	85.5%	5.4%	5.7%	2.8%	0.6%	964
Florencia	77.0%	8.3%	6.5%	6.3%	1.8%	1518
Floridablanca	88.0%	5.3%	3.3%	2.4%	1.1%	1777
Fusagasugá	84.8%	5.8%	4.7%	3.1%	1.6%	764
Girardot	77.5%	8.8%	5.8%	5.8%	2.1%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	84.9%	6.3%	5.2%	2.6%	1.1%	1125
Guainía	61.6%	13.9%	12.6%	10.2%	1.8%	453
Guaviare	68.2%	9.7%	8.3%	10.6%	3.2%	698
Huila	77.2%	7.9%	6.5%	7.0%	1.4%	5892
Ibagué	84.4%	5.6%	4.8%	3.8%	1.3%	3696
Ipiales	82.5%	6.1%	5.5%	5.2%	0.7%	946
Itagüí	80.7%	7.4%	6.0%	4.5%	1.3%	1293
Jamundí	72.2%	10.4%	6.8%	7.2%	3.3%	778
La Guajira	65.0%	12.6%	10.8%	8.3%	3.2%	3448
Lorica	62.4%	12.4%	12.6%	8.9%	3.7%	1032
Magangué	55.7%	14.5%	14.8%	11.6%	3.4%	1157
Magdalena	61.2%	13.9%	11.4%	9.7%	3.8%	6946
Maicao	60.4%	14.7%	11.6%	10.3%	2.9%	1720
Malambo	78.0%	6.1%	5.6%	7.5%	2.8%	818
Manizales	83.9%	5.8%	4.7%	4.5%	1.1%	2010
Medellín	79.4%	7.1%	6.0%	4.8%	2.6%	13569
Meta	78.1%	7.4%	6.9%	6.4%	1.3%	4477
Montería	65.9%	12.3%	11.5%	8.3%	2.0%	3934
Mosquera	86.1%	5.2%	4.0%	2.8%	1.8%	993
Nariño	77.8%	7.9%	5.6%	5.7%	3.0%	6223
Neiva	81.6%	6.7%	6.1%	4.8%	0.9%	2784
Norte de Santander	81.0%	6.7%	5.9%	5.2%	1.2%	6458
Palmira	81.6%	6.7%	5.4%	4.6%	1.7%	2052
Pasto	84.8%	5.7%	4.5%	3.8%	1.1%	2530
Pereira	83.8%	5.3%	4.4%	4.5%	2.0%	2982
Piedecuesta	82.4%	5.1%	5.9%	4.8%	1.7%	996
Pitalito	79.8%	6.2%	5.8%	6.0%	2.2%	1194
Popayán	84.1%	5.2%	4.1%	4.5%	2.1%	2035
Putumayo	72.7%	10.3%	8.0%	7.2%	1.9%	3086
Quibdó	67.3%	11.0%	9.6%	7.6%	4.5%	1033
Quindío	77.2%	8.2%	5.6%	6.4%	2.7%	1538
Riohacha	66.6%	11.5%	9.7%	9.1%	3.2%	2217
Rionegro	85.9%	5.0%	4.2%	4.1%	0.9%	764
Risaralda	73.5%	9.5%	6.9%	7.2%	2.9%	2033
Sabaneta	85.1%	2.8%	4.1%	2.5%	5.6%	395
Sahagún	69.3%	11.1%	9.7%	9.3%	0.6%	873
San Andrés	64.3%	14.2%	12.0%	6.0%	3.5%	401
Santa Marta	75.3%	8.0%	7.4%	7.2%	2.1%	4204
Santander	79.9%	7.3%	6.0%	5.5%	1.3%	6185

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	70.9%	10.9%	8.9%	7.6%	1.6%	2353
Soacha	84.6%	5.4%	4.9%	3.8%	1.3%	3934
Sogamoso	83.8%	6.3%	4.1%	5.2%	0.6%	1046
Soledad	80.1%	7.1%	6.0%	5.1%	1.7%	3730
Sucre	59.9%	14.2%	12.8%	9.9%	3.2%	5959
Tolima	73.5%	9.7%	7.2%	7.9%	1.6%	6918
Tuluá	79.6%	7.5%	5.9%	5.6%	1.4%	1463
Tumaco	56.4%	14.4%	12.3%	11.6%	5.2%	2017
Tunja	86.2%	5.4%	4.3%	3.5%	0.6%	1403
Turbo	61.0%	13.4%	12.8%	9.5%	3.3%	1937
Uribia	48.4%	18.5%	18.7%	9.8%	4.6%	1575
Valle del Cauca	76.7%	8.0%	7.0%	6.2%	2.1%	5679
Valledupar	74.6%	7.8%	7.8%	7.5%	2.4%	3913
Vaupés	43.3%	21.8%	17.8%	12.5%	4.5%	353
Vichada	61.0%	13.4%	15.1%	8.6%	1.9%	777
Villavicencio	83.5%	6.4%	4.8%	4.4%	1.1%	3999
Yopal	78.7%	7.0%	7.2%	5.7%	1.4%	1532
Yumbo	80.6%	6.9%	6.1%	4.5%	2.0%	869
Zipaquirá	88.2%	5.3%	3.1%	3.1%	0.3%	963
Colombia	76.6%	8.3%	7.0%	6.1%	2.1%	356848

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 30.

La tabla muestra 4 clases de animales y la cantidad de cada clase que hay en una granja. Observa.

Clase de animal	*Cantidad de animales*
Cerdos	10
Gallinas	15
Ovejas	20
Vacas	23

Tablas

Las 2 clases de animales que más hay en la granja son

A. vacas y ovejas.

B. vacas y cerdos.

C. gallinas y ovejas.

D. gallinas y cerdos.

• Estructura

Competencia	Resolución
Componente	Aleatorio
Afirmación	Resolver problemas a partir del análisis de datos recolectados.
Nivel de desempeño	Mínimo
Respuesta Correcta	A

• Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	53.0%	16.1%	14.4%	10.6%	6.0%	672
Antioquia	72.0%	10.5%	8.5%	6.1%	2.9%	20211
Apartadó	66.2%	13.8%	9.7%	6.9%	3.4%	1149
Arauca	75.1%	10.2%	8.3%	5.2%	1.2%	2390
Armenia	77.6%	8.8%	6.2%	4.4%	2.9%	1624
Atlántico	64.2%	12.6%	10.5%	7.8%	4.8%	4252
Barrancabermeja	76.8%	10.3%	6.0%	5.3%	1.6%	1947
Barranquilla	77.1%	8.2%	7.8%	4.8%	2.1%	8006
Bello	79.3%	7.7%	5.8%	5.0%	2.2%	3173
Bogotá, D.C.	84.5%	5.5%	4.7%	3.3%	2.0%	45991
Bolívar	56.3%	16.2%	13.4%	9.7%	4.4%	8606
Boyacá	78.7%	7.7%	7.4%	5.1%	1.1%	6337
Bucaramanga	84.4%	6.0%	4.9%	3.6%	1.0%	3695
Buenaventura	70.1%	11.0%	9.6%	6.0%	3.4%	3423
Buga	73.1%	8.6%	8.3%	6.1%	3.9%	687
Caldas	77.8%	8.8%	6.5%	5.3%	1.7%	4030
Cali	80.6%	7.1%	5.6%	4.4%	2.3%	13697
Caquetá	71.1%	10.4%	8.9%	6.9%	2.7%	2279
Cartagena	72.1%	10.5%	8.7%	5.5%	3.1%	7633
Cartago	76.0%	9.0%	8.4%	4.5%	2.2%	836
Casanare	73.3%	10.4%	8.1%	7.0%	1.3%	2496
Cauca	73.1%	10.1%	8.5%	5.5%	2.8%	9587
Cesar	71.0%	11.2%	8.9%	6.6%	2.4%	6409
Chocó	60.2%	14.9%	12.1%	9.0%	3.7%	3280
Chía	85.9%	5.3%	5.0%	3.0%	0.9%	1176
Ciénaga	64.1%	10.1%	11.9%	8.0%	5.9%	1037
Cundinamarca	81.2%	7.3%	6.2%	4.1%	1.2%	11700
Córdoba	61.4%	13.6%	12.2%	9.6%	3.2%	10335
Cúcuta	80.7%	7.8%	6.4%	4.1%	1.0%	5930
Dosquebradas	80.4%	6.4%	7.0%	4.1%	2.1%	1309
Duitama	86.1%	5.0%	5.8%	2.8%	0.3%	909
Envigado	84.9%	4.7%	4.1%	4.7%	1.6%	923
Facatativá	82.9%	6.8%	5.8%	3.8%	0.6%	964
Florencia	74.3%	11.0%	7.8%	4.9%	2.0%	1518
Floridablanca	85.7%	4.4%	5.7%	2.9%	1.2%	1777
Fusagasugá	85.2%	5.4%	4.8%	3.1%	1.4%	764
Girardot	73.7%	10.0%	9.2%	4.9%	2.1%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	82.3%	6.9%	5.5%	4.2%	1.1%	1125
Guainía	58.7%	15.0%	15.5%	9.7%	1.1%	453
Guaviare	73.1%	9.9%	9.6%	4.7%	2.7%	698
Huila	75.7%	9.5%	7.8%	5.3%	1.7%	5892
Ibagué	81.2%	7.4%	5.7%	4.5%	1.2%	3696
Ipiales	80.8%	7.3%	6.3%	4.7%	1.0%	946
Itagüí	78.1%	8.1%	7.7%	4.9%	1.2%	1293
Jamundí	71.5%	9.9%	9.0%	6.6%	3.1%	778
La Guajira	64.3%	11.9%	12.0%	8.2%	3.7%	3448
Lorica	61.8%	14.4%	12.5%	6.6%	4.7%	1032
Magangué	56.8%	17.0%	12.4%	9.7%	4.1%	1157
Magdalena	61.3%	14.3%	12.5%	7.9%	4.1%	6946
Maicao	60.0%	13.7%	14.0%	9.3%	3.0%	1720
Malambo	72.6%	10.0%	7.6%	6.8%	2.9%	818
Manizales	81.8%	6.3%	6.1%	4.7%	1.1%	2010
Medellín	77.4%	8.1%	6.9%	4.6%	3.0%	13569
Meta	76.6%	9.2%	7.2%	5.1%	1.8%	4477
Montería	64.3%	13.6%	11.4%	8.0%	2.7%	3934
Mosquera	83.2%	7.9%	4.0%	3.4%	1.5%	993
Nariño	78.8%	7.6%	5.9%	4.6%	3.2%	6223
Neiva	79.7%	8.8%	5.6%	4.8%	1.1%	2784
Norte de Santander	79.9%	7.6%	6.6%	4.6%	1.3%	6458
Palmira	79.3%	7.1%	7.2%	4.7%	1.7%	2052
Pasto	82.5%	7.0%	5.4%	3.9%	1.3%	2530
Pereira	80.4%	6.5%	6.1%	4.5%	2.5%	2982
Piedecuesta	81.1%	6.9%	5.6%	4.1%	2.2%	996
Pitalito	78.6%	7.3%	6.3%	5.7%	2.1%	1194
Popayán	82.9%	6.2%	5.0%	4.2%	1.7%	2035
Putumayo	73.1%	11.0%	7.9%	5.7%	2.4%	3086
Quibdó	65.7%	10.8%	11.4%	7.5%	4.5%	1033
Quindío	75.6%	8.6%	7.2%	5.7%	2.9%	1538
Riohacha	65.5%	12.4%	12.2%	6.4%	3.4%	2217
Rionegro	82.6%	7.1%	5.0%	4.5%	0.9%	764
Risaralda	75.4%	8.7%	7.0%	5.7%	3.3%	2033
Sabaneta	81.8%	6.1%	4.1%	2.0%	6.1%	395
Sahagún	69.4%	11.3%	10.0%	7.9%	1.4%	873
San Andrés	62.1%	13.5%	9.7%	10.5%	4.2%	401
Santa Marta	75.2%	9.1%	7.6%	5.4%	2.7%	4204
Santander	78.0%	8.1%	7.2%	4.9%	1.7%	6185

Continúa en la siguiente página

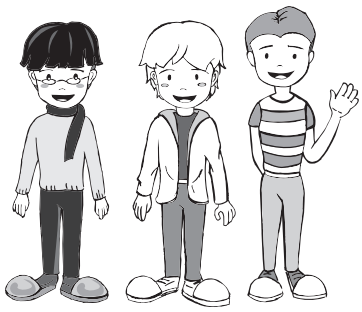
ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	68.9%	12.6%	9.7%	7.1%	1.7%	2353
Soacha	82.6%	6.6%	5.9%	3.7%	1.2%	3934
Sogamoso	83.9%	6.6%	5.0%	3.7%	0.8%	1046
Soledad	76.9%	8.8%	7.5%	5.0%	1.8%	3730
Sucre	59.5%	14.7%	13.0%	9.2%	3.6%	5959
Tolima	71.4%	11.1%	9.0%	6.2%	2.2%	6918
Tuluá	79.2%	7.8%	7.1%	4.6%	1.2%	1463
Tumaco	58.9%	13.8%	12.5%	9.3%	5.6%	2017
Tunja	84.6%	7.2%	4.2%	2.9%	1.1%	1403
Turbo	62.2%	15.8%	10.6%	8.6%	2.8%	1937
Uribia	47.7%	17.0%	18.8%	11.7%	4.9%	1575
Valle del Cauca	74.7%	9.5%	7.6%	5.4%	2.9%	5679
Valledupar	73.9%	9.4%	7.6%	6.7%	2.4%	3913
Vaupés	42.2%	18.4%	21.0%	14.4%	4.0%	353
Vichada	58.6%	16.0%	13.1%	10.0%	2.3%	777
Villavicencio	81.4%	7.0%	6.2%	4.1%	1.4%	3999
Yopal	77.2%	8.9%	7.6%	4.3%	2.0%	1532
Yumbo	78.8%	7.2%	6.1%	5.1%	2.8%	869
Zipaquirá	86.4%	6.0%	4.9%	1.9%	0.8%	963
Colombia	75.1%	9.2%	7.8%	5.5%	2.4%	356848

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

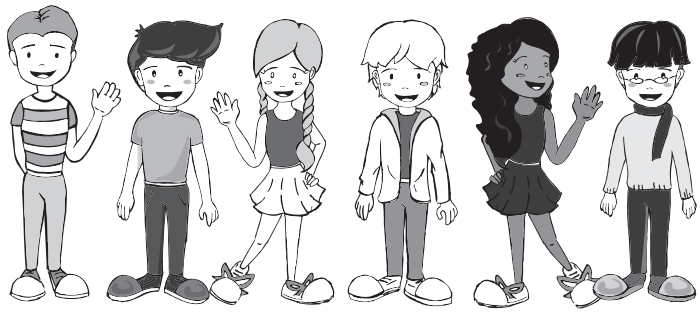
• Pregunta 31.

En una fiesta se repartieron 15 postres entre los invitados. Si cada invitado se comió 3 postres, ¿cuál grupo representa el total de invitados que asistió a la fiesta?

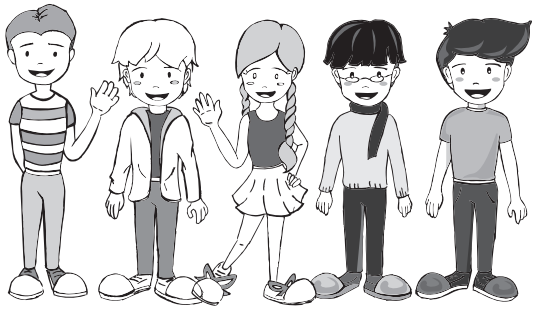
A.



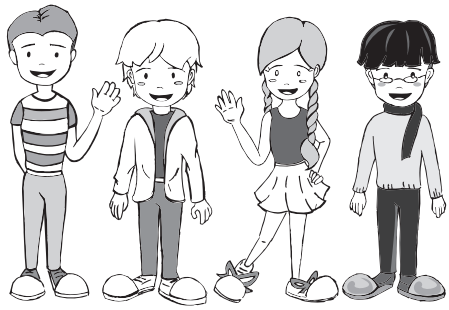
B.



C.



D.



• Estructura

Competencia	Resolución
Componente	Numérico - Variacional
Afirmación	Resolver y formular problemas multiplicativos rutinarios de adición repetida.
Nivel de desempeño	Avanzado
Respuesta Correcta	C

- **Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	19.3%	32.4%	32.1%	9.8%	6.3%	672
Antioquia	15.4%	32.5%	41.8%	7.2%	3.0%	20211
Apartadó	16.6%	33.4%	38.6%	8.2%	3.2%	1149
Arauca	14.5%	30.3%	46.7%	7.0%	1.4%	2390
Armenia	17.1%	29.2%	42.7%	8.1%	3.0%	1624
Atlántico	17.3%	29.3%	40.3%	8.1%	4.9%	4252
Barrancabermeja	17.5%	28.1%	45.2%	7.1%	2.1%	1947
Barranquilla	17.5%	26.9%	47.2%	6.2%	2.2%	8006
Bello	16.8%	31.9%	41.9%	7.1%	2.3%	3173
Bogotá, D.C.	15.4%	26.9%	49.8%	5.8%	2.0%	45991
Bolívar	17.3%	33.3%	34.6%	10.0%	4.8%	8606
Boyacá	13.8%	29.3%	49.9%	5.9%	1.2%	6337
Bucaramanga	13.1%	25.7%	54.3%	5.6%	1.3%	3695
Buenaventura	16.4%	25.7%	47.8%	6.8%	3.4%	3423
Buga	17.6%	29.5%	41.9%	7.7%	3.2%	687
Caldas	15.5%	29.3%	48.1%	5.6%	1.5%	4030
Cali	17.9%	27.2%	46.6%	5.8%	2.5%	13697
Caquetá	15.6%	29.1%	46.5%	5.9%	2.9%	2279
Cartagena	15.5%	26.7%	47.5%	6.5%	3.8%	7633
Cartago	17.0%	31.0%	43.5%	5.9%	2.6%	836
Casanare	16.9%	31.4%	43.2%	7.5%	1.0%	2496
Cauca	14.9%	27.0%	49.4%	5.8%	2.8%	9587
Cesar	15.6%	30.4%	43.8%	7.3%	2.8%	6409
Chocó	18.5%	25.3%	45.0%	7.6%	3.6%	3280
Chía	15.0%	24.5%	52.4%	7.1%	1.0%	1176
Ciénaga	16.1%	27.7%	40.7%	8.8%	6.8%	1037
Cundinamarca	14.1%	27.6%	51.2%	5.9%	1.2%	11700
Córdoba	16.1%	34.0%	38.1%	8.8%	3.1%	10335
Cúcuta	15.8%	27.6%	48.6%	6.7%	1.3%	5930
Dosquebradas	16.3%	32.5%	43.4%	5.8%	1.9%	1309
Duitama	13.0%	22.3%	58.6%	5.4%	0.7%	909
Envigado	14.0%	22.9%	55.6%	5.7%	1.8%	923
Facatativá	15.2%	26.5%	51.5%	6.0%	0.8%	964
Florencia	17.3%	28.4%	44.9%	6.9%	2.5%	1518
Floridablanca	13.2%	23.2%	56.8%	5.6%	1.3%	1777
Fusagasugá	13.5%	28.4%	50.3%	5.8%	2.1%	764
Girardot	20.2%	33.5%	36.9%	7.5%	2.0%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	14.9%	27.2%	49.8%	6.8%	1.2%	1125
Guainía	19.4%	35.1%	34.0%	9.1%	2.4%	453
Guaviare	17.9%	31.7%	40.1%	7.0%	3.3%	698
Huila	16.2%	32.4%	43.5%	6.3%	1.6%	5892
Ibagué	15.7%	26.6%	50.7%	5.5%	1.4%	3696
Ipiales	14.9%	28.4%	50.0%	5.9%	0.7%	946
Itagüí	16.9%	33.9%	41.3%	6.1%	1.9%	1293
Jamundí	18.9%	27.9%	41.1%	8.6%	3.5%	778
La Guajira	16.4%	26.7%	45.4%	7.9%	3.6%	3448
Lorica	13.5%	34.8%	39.2%	8.8%	3.7%	1032
Magangué	17.6%	34.7%	32.2%	10.6%	4.8%	1157
Magdalena	16.4%	28.4%	42.8%	7.6%	4.8%	6946
Maicao	19.0%	30.9%	36.7%	10.3%	3.1%	1720
Malambo	15.4%	22.0%	54.0%	5.9%	2.7%	818
Manizales	15.7%	30.4%	46.4%	5.9%	1.5%	2010
Medellín	16.9%	32.2%	40.9%	6.9%	3.1%	13569
Meta	16.9%	30.2%	44.6%	6.7%	1.6%	4477
Montería	17.7%	33.5%	36.8%	9.4%	2.6%	3934
Mosquera	16.5%	27.8%	47.0%	6.8%	1.8%	993
Nariño	14.4%	25.6%	51.9%	4.5%	3.6%	6223
Neiva	16.9%	31.6%	43.9%	6.4%	1.1%	2784
Norte de Santander	15.2%	26.3%	51.3%	5.8%	1.4%	6458
Palmira	17.9%	28.9%	46.0%	5.6%	1.6%	2052
Pasto	15.7%	28.8%	47.9%	6.5%	1.1%	2530
Pereira	16.9%	27.8%	46.9%	5.6%	2.8%	2982
Piedecuesta	12.9%	25.4%	53.3%	6.3%	2.1%	996
Pitalito	16.2%	29.9%	46.4%	5.5%	2.0%	1194
Popayán	15.4%	25.4%	51.6%	5.4%	2.2%	2035
Putumayo	15.6%	31.3%	42.4%	8.1%	2.5%	3086
Quibdó	16.0%	33.7%	39.1%	6.5%	4.7%	1033
Quindío	15.0%	29.8%	45.5%	6.6%	3.1%	1538
Riohacha	16.4%	27.1%	44.7%	8.5%	3.3%	2217
Rionegro	13.2%	29.1%	49.2%	7.3%	1.2%	764
Risaralda	17.1%	30.5%	43.2%	5.9%	3.4%	2033
Sabaneta	12.7%	23.0%	52.2%	5.8%	6.3%	395
Sahagún	19.1%	39.1%	33.0%	7.7%	1.1%	873
San Andrés	19.5%	32.9%	35.2%	8.7%	3.7%	401
Santa Marta	19.6%	28.2%	42.8%	6.5%	2.8%	4204
Santander	15.4%	27.8%	49.1%	6.1%	1.6%	6185

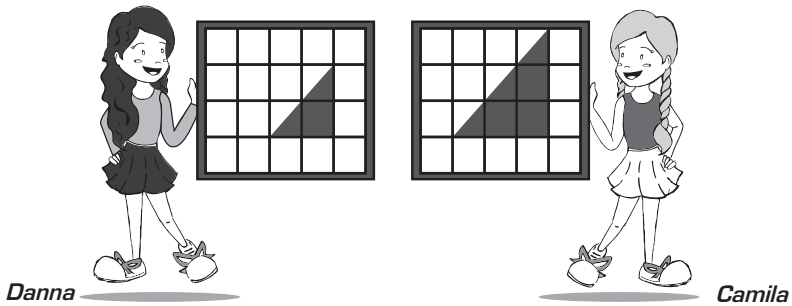
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	18.1%	34.4%	37.4%	7.9%	2.1%	2353
Soacha	15.9%	28.8%	47.7%	6.2%	1.3%	3934
Sogamoso	12.0%	30.8%	50.8%	5.5%	1.0%	1046
Soledad	17.5%	24.7%	49.8%	6.0%	2.0%	3730
Sucre	17.3%	33.4%	35.7%	9.6%	4.0%	5959
Tolima	16.4%	31.4%	43.3%	6.5%	2.3%	6918
Tuluá	16.3%	29.4%	46.1%	6.6%	1.7%	1463
Tumaco	16.6%	27.1%	41.4%	8.4%	6.5%	2017
Tunja	14.2%	23.8%	56.0%	5.1%	1.0%	1403
Turbo	20.7%	33.4%	33.7%	9.0%	3.3%	1937
Uribia	20.0%	27.9%	34.3%	11.9%	5.8%	1575
Valle del Cauca	16.9%	30.2%	43.5%	6.7%	2.8%	5679
Valledupar	15.3%	28.5%	46.9%	6.8%	2.5%	3913
Vaupés	16.1%	46.7%	19.5%	12.2%	5.4%	353
Vichada	17.9%	35.6%	33.7%	10.6%	2.2%	777
Villavicencio	14.9%	25.2%	52.1%	6.3%	1.6%	3999
Yopal	14.8%	32.2%	43.7%	7.4%	2.0%	1532
Yumbo	18.5%	32.0%	39.7%	7.2%	2.5%	869
Zipaquirá	13.5%	23.7%	58.0%	4.2%	0.6%	963
Colombia	16.1%	29.1%	45.5%	6.8%	2.5%	356848

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 32.

Observa los triángulos dibujados por Danna y Camila.



Es correcto afirmar que las dos figuras tienen

A. la misma forma pero diferente tamaño.
B. igual tamaño y el mismo número de lados.
C. la misma forma y el mismo tamaño.
D. igual tamaño y diferente número de lados.

• Estructura

Competencia	Comunicación
Componente	Espacial - Métrico
Afirmación	Describir características de figuras que son semejantes o congruentes entre sí.
Nivel de desempeño	Mínimo
Respuesta Correcta	A

- **Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	60.0%	10.1%	11.6%	12.6%	5.7%	672
Antioquia	74.5%	7.4%	6.8%	8.5%	2.7%	20211
Apartadó	69.6%	10.5%	8.2%	8.1%	3.6%	1149
Arauca	76.9%	7.4%	6.4%	8.4%	0.9%	2390
Armenia	78.7%	6.5%	6.1%	6.3%	2.4%	1624
Atlántico	68.7%	9.6%	8.3%	9.0%	4.4%	4252
Barrancabermeja	78.8%	6.9%	6.1%	6.4%	1.8%	1947
Barranquilla	78.9%	6.8%	6.1%	6.3%	2.0%	8006
Bello	81.1%	6.5%	5.3%	5.1%	2.0%	3173
Bogotá, D.C.	85.9%	4.3%	3.9%	3.9%	2.1%	45991
Bolívar	61.1%	12.2%	11.2%	11.7%	3.8%	8606
Boyacá	78.4%	7.4%	5.8%	7.4%	1.1%	6337
Bucaramanga	86.4%	4.5%	4.0%	4.2%	0.9%	3695
Buenaventura	75.1%	7.4%	7.4%	7.2%	2.9%	3423
Buga	78.6%	7.6%	6.0%	5.1%	2.8%	687
Caldas	79.5%	6.0%	5.4%	7.8%	1.3%	4030
Cali	82.9%	5.1%	5.1%	4.5%	2.3%	13697
Caquetá	71.6%	7.4%	7.2%	11.4%	2.5%	2279
Cartagena	74.9%	8.1%	7.0%	6.9%	3.1%	7633
Cartago	76.8%	8.3%	6.2%	5.9%	2.9%	836
Casanare	72.8%	8.9%	8.6%	8.8%	0.9%	2496
Cauca	72.9%	8.3%	7.4%	8.8%	2.6%	9587
Cesar	70.8%	8.7%	9.0%	9.5%	2.1%	6409
Chocó	62.1%	12.7%	9.5%	12.8%	2.9%	3280
Chía	87.9%	3.8%	3.7%	3.3%	1.2%	1176
Ciénaga	69.3%	9.3%	7.3%	9.0%	5.1%	1037
Cundinamarca	81.4%	5.8%	5.9%	5.9%	1.1%	11700
Córdoba	63.6%	11.5%	10.2%	12.1%	2.7%	10335
Cúcuta	81.8%	6.8%	5.3%	5.0%	1.0%	5930
Dosquebradas	82.9%	5.3%	4.0%	5.8%	1.9%	1309
Duitama	87.7%	4.4%	4.4%	3.0%	0.6%	909
Envigado	86.0%	4.2%	4.7%	3.3%	1.8%	923
Facatativá	83.4%	5.9%	5.3%	5.0%	0.4%	964
Florencia	77.9%	7.0%	5.3%	8.0%	1.7%	1518
Floridablanca	85.5%	5.3%	3.8%	4.4%	0.9%	1777
Fusagasugá	83.9%	6.4%	3.7%	4.2%	1.8%	764
Girardot	76.1%	9.2%	4.8%	7.2%	2.7%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	82.8%	6.0%	5.3%	5.2%	0.7%	1125
Guainía	60.0%	12.6%	9.1%	17.2%	1.1%	453
Guaviare	69.1%	8.7%	8.7%	10.7%	2.7%	698
Huila	75.9%	7.4%	6.8%	8.4%	1.5%	5892
Ibagué	82.0%	5.4%	5.0%	6.5%	1.1%	3696
Ipiales	83.1%	5.6%	5.2%	5.0%	1.2%	946
Itagüí	79.5%	7.5%	7.4%	4.2%	1.4%	1293
Jamundí	73.9%	8.6%	8.0%	6.3%	3.2%	778
La Guajira	66.9%	10.9%	9.5%	9.7%	2.9%	3448
Lorica	64.6%	9.8%	11.4%	11.0%	3.1%	1032
Magangué	61.2%	12.1%	10.0%	13.3%	3.4%	1157
Magdalena	64.5%	11.4%	9.6%	11.0%	3.6%	6946
Maicao	63.3%	12.0%	10.3%	12.0%	2.3%	1720
Malambo	76.9%	7.1%	6.1%	7.2%	2.7%	818
Manizales	83.5%	5.4%	5.2%	5.0%	0.9%	2010
Medellín	79.9%	6.3%	5.3%	5.5%	2.9%	13569
Meta	78.4%	6.6%	6.3%	7.3%	1.4%	4477
Montería	67.9%	10.7%	9.0%	9.9%	2.5%	3934
Mosquera	87.1%	3.6%	3.4%	4.2%	1.6%	993
Nariño	78.8%	5.9%	5.8%	6.4%	3.0%	6223
Neiva	81.3%	6.5%	5.3%	5.7%	1.1%	2784
Norte de Santander	79.3%	6.5%	5.7%	7.3%	1.2%	6458
Palmira	81.5%	7.3%	4.2%	5.5%	1.5%	2052
Pasto	84.3%	5.7%	4.7%	4.1%	1.1%	2530
Pereira	83.8%	4.3%	4.4%	4.7%	2.9%	2982
Piedecuesta	81.6%	5.5%	5.7%	4.9%	2.2%	996
Pitalito	77.6%	5.4%	7.1%	7.7%	2.3%	1194
Popayán	83.1%	4.9%	4.5%	5.7%	1.8%	2035
Putumayo	71.9%	9.4%	7.6%	9.1%	2.0%	3086
Quibdó	73.3%	7.9%	7.3%	7.9%	3.6%	1033
Quindío	77.7%	6.2%	5.3%	8.4%	2.3%	1538
Riohacha	69.5%	9.3%	8.4%	10.1%	2.7%	2217
Rionegro	84.9%	3.9%	5.8%	4.3%	1.0%	764
Risaralda	75.8%	6.4%	6.4%	8.5%	2.9%	2033
Sabaneta	80.8%	4.8%	5.1%	3.0%	6.3%	395
Sahagún	66.4%	12.1%	10.3%	10.4%	0.7%	873
San Andrés	65.8%	10.7%	9.2%	11.5%	2.7%	401
Santa Marta	77.2%	5.9%	7.5%	7.2%	2.2%	4204
Santander	77.3%	7.0%	6.5%	7.7%	1.6%	6185

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	73.4%	9.1%	7.6%	8.5%	1.3%	2353
Soacha	83.3%	4.9%	4.9%	5.6%	1.2%	3934
Sogamoso	83.7%	5.1%	5.1%	5.4%	0.9%	1046
Soledad	80.2%	6.7%	5.7%	5.9%	1.5%	3730
Sucre	62.5%	11.4%	11.5%	11.7%	2.9%	5959
Tolima	72.3%	8.6%	7.7%	9.5%	1.9%	6918
Tuluá	81.8%	5.5%	5.7%	5.7%	1.3%	1463
Tumaco	66.4%	10.1%	7.8%	10.4%	5.3%	2017
Tunja	85.5%	4.6%	4.8%	4.4%	0.7%	1403
Turbo	66.2%	11.4%	9.8%	10.1%	2.6%	1937
Uribia	49.3%	17.8%	13.0%	15.5%	4.4%	1575
Valle del Cauca	77.9%	7.0%	6.0%	6.9%	2.2%	5679
Valledupar	77.2%	7.0%	6.1%	7.6%	2.1%	3913
Vaupés	40.8%	17.0%	17.0%	21.0%	4.2%	353
Vichada	56.0%	14.3%	12.0%	15.4%	2.3%	777
Villavicencio	82.7%	6.4%	4.9%	4.7%	1.4%	3999
Yopal	76.2%	8.6%	7.1%	6.2%	1.8%	1532
Yumbo	81.0%	6.8%	4.9%	5.4%	1.8%	869
Zipaquirá	89.1%	3.7%	3.1%	3.4%	0.6%	963
Colombia	76.9%	7.2%	6.5%	7.2%	2.2%	356848

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

• Pregunta 33.

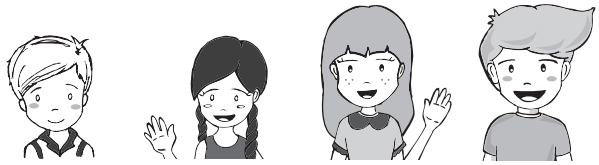
Observa las edades de 4 hermanos.

¿Cuál imagen ordena los cuatro niños de mayor a menor edad?

A.

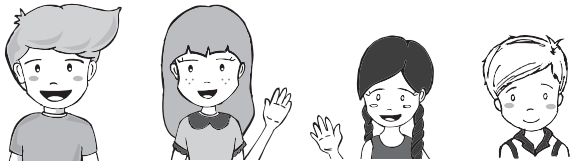
Laura Camila Andrés Mateo

B.



Andrés Camila Laura Mateo

C.



Mateo Laura Camila Andrés

D.

Camila Andrés Mateo Laura

• Estructura

Competencia	Comunicación
Componente	Aleatorio
Afirmación	Clasificar y organizar la presentación de datos.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	C

• Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	11.8%	27.4%	44.5%	10.1%	6.3%	672
Antioquia	11.5%	25.5%	51.7%	8.3%	3.1%	20211
Apartadó	12.2%	25.7%	48.6%	9.2%	4.4%	1149
Arauca	10.2%	25.1%	55.4%	7.9%	1.4%	2390
Armenia	8.6%	22.5%	59.1%	7.1%	2.7%	1624
Atlántico	12.2%	23.6%	51.6%	7.7%	4.9%	4252
Barrancabermeja	8.9%	22.1%	60.6%	6.4%	2.1%	1947
Barranquilla	9.1%	21.1%	61.5%	6.1%	2.3%	8006
Bello	9.1%	27.0%	55.8%	5.3%	2.7%	3173
Bogotá, D.C.	5.4%	24.0%	64.2%	4.1%	2.3%	45991
Bolívar	14.9%	26.1%	43.9%	10.7%	4.3%	8606
Boyacá	7.4%	26.2%	58.7%	6.7%	1.0%	6337
Bucaramanga	5.5%	22.0%	67.2%	4.2%	1.1%	3695
Buenaventura	10.5%	20.1%	57.8%	8.6%	3.0%	3423
Buga	10.5%	21.1%	57.5%	7.9%	3.1%	687
Caldas	10.3%	22.6%	58.4%	7.1%	1.6%	4030
Cali	8.0%	21.8%	62.4%	5.3%	2.5%	13697
Caquetá	11.3%	24.0%	53.0%	8.9%	2.9%	2279
Cartagena	10.5%	22.1%	56.6%	7.1%	3.8%	7633
Cartago	9.8%	24.0%	56.0%	7.1%	3.1%	836
Casanare	9.7%	27.4%	53.6%	7.9%	1.2%	2496
Cauca	11.1%	21.4%	57.1%	7.4%	2.9%	9587
Cesar	11.2%	24.1%	53.3%	8.9%	2.5%	6409
Chocó	13.4%	23.4%	50.8%	9.1%	3.3%	3280
Chía	4.6%	25.5%	64.9%	3.4%	1.6%	1176
Ciénaga	12.1%	21.6%	50.8%	10.1%	5.4%	1037

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Cundinamarca	6.9%	24.8%	61.5%	5.5%	1.3%	11700
Córdoba	13.3%	25.9%	47.1%	10.3%	3.4%	10335
Cúcuta	7.3%	24.9%	60.6%	5.9%	1.2%	5930
Dosquebradas	7.5%	22.0%	63.1%	5.3%	2.1%	1309
Duitama	5.3%	24.1%	66.6%	3.3%	0.8%	909
Envigado	6.4%	22.1%	66.1%	3.4%	2.1%	923
Facatativá	6.4%	24.3%	63.7%	4.4%	1.2%	964
Florencia	9.4%	23.3%	57.2%	7.7%	2.3%	1518
Floridablanca	4.2%	23.1%	68.6%	2.9%	1.2%	1777
Fusagasugá	6.9%	25.1%	61.4%	4.8%	1.7%	764
Girardot	10.6%	28.0%	51.1%	8.2%	2.1%	708
Girón	7.2%	23.5%	62.5%	6.0%	0.9%	1125
Guainía	16.6%	21.6%	47.9%	11.5%	2.4%	453
Guaviare	10.6%	27.2%	52.0%	7.2%	3.0%	698
Huila	9.8%	24.7%	55.4%	8.4%	1.7%	5892
Ibagué	7.3%	24.7%	61.2%	5.4%	1.4%	3696
Ipiales	6.0%	23.2%	64.8%	5.3%	0.7%	946
Itagüí	8.4%	24.6%	60.1%	5.4%	1.5%	1293
Jamundí	11.7%	23.1%	51.3%	9.6%	4.2%	778
La Guajira	11.1%	24.1%	51.5%	9.3%	4.0%	3448
Lorica	14.4%	25.0%	46.7%	10.7%	3.2%	1032
Magangué	16.5%	25.7%	42.7%	10.2%	4.9%	1157
Magdalena	13.3%	22.2%	50.9%	9.6%	3.9%	6946
Maicao	12.9%	25.9%	45.8%	12.0%	3.4%	1720
Malambo	9.7%	16.9%	64.4%	6.4%	2.7%	818
Manizales	8.4%	22.1%	63.0%	5.0%	1.4%	2010
Medellín	9.4%	26.4%	55.1%	6.0%	3.2%	13569
Meta	9.5%	25.0%	56.0%	7.7%	1.9%	4477
Montería	11.3%	26.5%	49.5%	9.7%	2.9%	3934
Mosquera	5.4%	24.3%	64.2%	4.1%	1.9%	993
Nariño	9.1%	21.1%	60.9%	5.7%	3.3%	6223
Neiva	8.0%	25.9%	58.4%	6.5%	1.2%	2784
Norte de Santander	8.1%	24.5%	59.2%	6.6%	1.5%	6458
Palmira	8.5%	26.0%	57.7%	5.6%	2.1%	2052
Pasto	7.1%	25.4%	60.6%	5.5%	1.3%	2530
Pereira	7.5%	21.9%	61.8%	5.7%	3.1%	2982
Piedecuesta	6.2%	22.6%	65.1%	3.9%	2.2%	996
Pitalito	8.9%	23.4%	57.0%	8.7%	2.1%	1194
Popayán	6.2%	22.7%	64.2%	4.9%	2.0%	2035

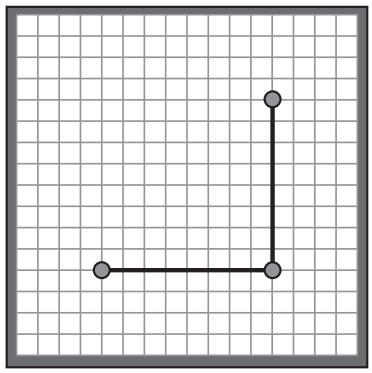
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Putumayo	10.8%	24.0%	53.5%	9.0%	2.6%	3086
Quibdó	11.3%	20.6%	56.2%	7.0%	4.8%	1033
Quindío	10.5%	24.8%	55.7%	6.4%	2.7%	1538
Riohacha	10.0%	23.9%	53.6%	9.1%	3.5%	2217
Rionegro	6.3%	24.1%	64.4%	4.1%	1.2%	764
Risaralda	9.2%	24.4%	55.7%	7.0%	3.7%	2033
Sabaneta	5.3%	23.3%	61.3%	3.8%	6.3%	395
Sahagún	14.3%	26.3%	49.8%	8.4%	1.1%	873
San Andrés	13.5%	24.2%	52.4%	6.7%	3.2%	401
Santa Marta	10.7%	24.7%	54.7%	7.4%	2.6%	4204
Santander	8.3%	23.2%	60.2%	6.5%	1.6%	6185
Sincelejo	13.1%	26.3%	48.9%	9.8%	2.0%	2353
Soacha	7.2%	24.3%	61.8%	5.0%	1.6%	3934
Sogamoso	4.5%	24.1%	64.9%	5.4%	1.1%	1046
Soledad	9.2%	22.4%	60.9%	5.8%	1.8%	3730
Sucre	14.5%	25.6%	45.4%	10.6%	4.0%	5959
Tolima	11.1%	25.0%	51.9%	9.9%	2.1%	6918
Tuluá	7.1%	24.3%	59.6%	7.2%	1.7%	1463
Tumaco	13.8%	23.3%	47.4%	9.9%	5.6%	2017
Tunja	3.6%	22.2%	68.1%	5.3%	0.9%	1403
Turbo	15.8%	26.1%	43.5%	11.3%	3.3%	1937
Uribia	13.8%	26.6%	42.5%	12.3%	4.8%	1575
Valle del Cauca	9.8%	24.2%	56.0%	7.3%	2.6%	5679
Valledupar	10.6%	22.6%	57.3%	7.1%	2.4%	3913
Vaupés	14.4%	33.1%	34.0%	13.9%	4.5%	353
Vichada	13.5%	27.3%	44.9%	11.1%	3.2%	777
Villavicencio	6.6%	23.7%	62.2%	6.1%	1.5%	3999
Yopal	8.0%	25.3%	57.9%	6.8%	2.0%	1532
Yumbo	8.9%	22.4%	59.6%	6.4%	2.6%	869
Zipaquirá	4.0%	26.1%	65.0%	4.3%	0.6%	963
Colombia	9.3%	24.1%	57.1%	7.0%	2.5%	356848

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

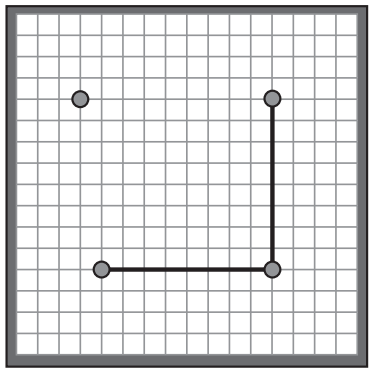
• Pregunta 34.

Lina ubica fichas en un tablero y las une con líneas rectas. Observa la ubicación de 3 fichas.

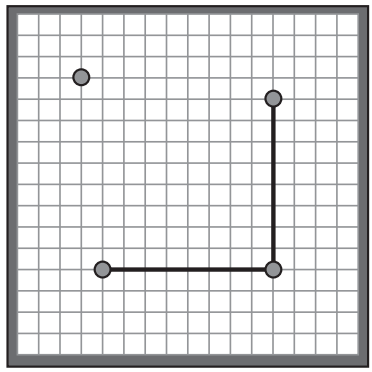


Lina ubicó correctamente otra ficha para construir un cuadrado, ¿cuál tablero muestra la ubicación de esta ficha?

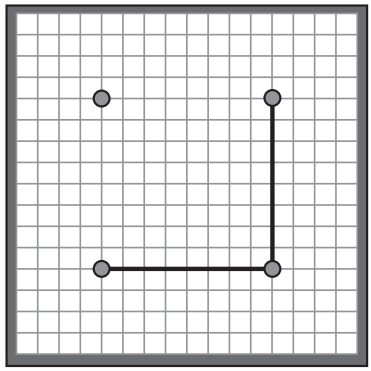
A.



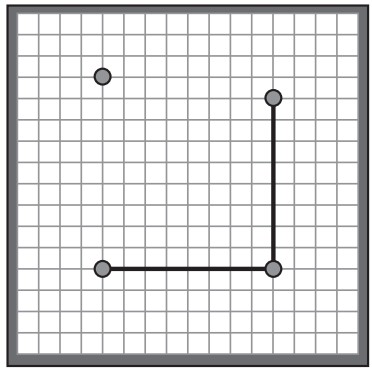
B.



C.



D.



• Estructura

Competencia	Resolución
Componente	Espacial - Métrico
Afirmación	Usar propiedades geométricas para solucionar problemas relativos a diseño y construcción de figuras planas.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	C

• Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	13.8%	15.9%	54.8%	9.8%	5.7%	672
Antioquia	15.8%	10.7%	62.3%	7.9%	3.2%	20211
Apartadó	16.6%	11.8%	57.3%	10.3%	4.0%	1149
Arauca	11.1%	9.1%	71.0%	7.1%	1.7%	2390
Armenia	13.9%	9.8%	66.0%	6.8%	3.5%	1624
Atlántico	13.8%	12.1%	61.2%	7.7%	5.2%	4252
Barrancabermeja	14.6%	8.6%	67.3%	6.9%	2.6%	1947
Barranquilla	13.9%	8.0%	69.7%	5.9%	2.5%	8006
Bello	16.6%	9.3%	65.3%	5.8%	3.0%	3173
Bogotá, D.C.	11.3%	5.8%	75.7%	4.7%	2.5%	45991
Bolívar	17.4%	15.3%	51.9%	10.5%	4.8%	8606
Boyacá	12.6%	8.7%	70.8%	6.6%	1.3%	6337
Bucaramanga	13.5%	6.7%	73.1%	5.5%	1.2%	3695
Buenaventura	13.3%	10.3%	67.3%	6.0%	3.2%	3423
Buga	11.9%	10.0%	65.4%	9.6%	3.1%	687
Caldas	13.8%	9.0%	68.6%	6.7%	1.9%	4030
Cali	13.7%	7.8%	70.2%	5.5%	2.9%	13697
Caquetá	12.0%	9.9%	68.5%	6.8%	2.8%	2279
Cartagena	14.4%	10.2%	64.8%	6.6%	3.9%	7633
Cartago	17.3%	8.7%	63.0%	7.3%	3.6%	836
Casanare	13.6%	11.9%	65.6%	7.3%	1.6%	2496
Cauca	12.2%	9.6%	68.1%	6.9%	3.2%	9587
Cesar	13.4%	11.2%	64.9%	7.7%	2.8%	6409
Chocó	14.2%	13.3%	59.3%	9.6%	3.6%	3280
Chía	12.2%	6.5%	73.8%	5.3%	2.2%	1176
Ciénaga	12.8%	9.6%	63.6%	7.7%	6.2%	1037

Continúa en la siguiente página

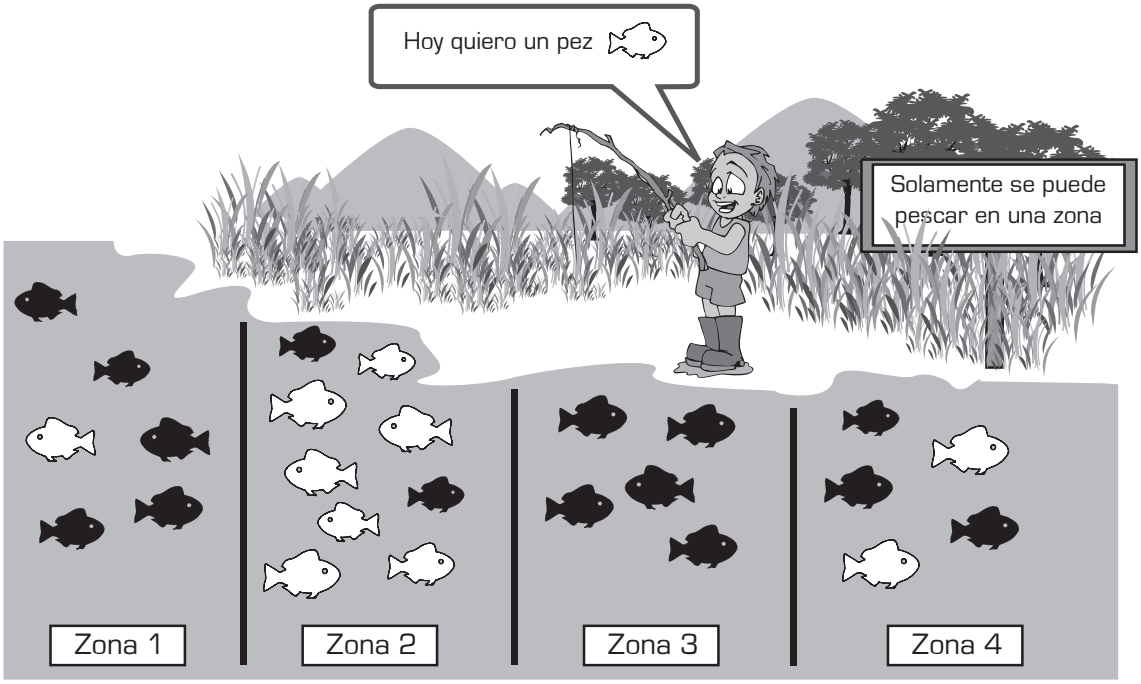
ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Cundinamarca	12.7%	7.7%	72.5%	5.6%	1.4%	11700
Córdoba	16.4%	14.3%	55.9%	9.8%	3.5%	10335
Cúcuta	13.2%	8.5%	70.7%	6.3%	1.3%	5930
Dosquebradas	12.8%	7.2%	71.7%	6.0%	2.2%	1309
Duitama	9.4%	6.6%	78.2%	5.3%	0.6%	909
Envigado	14.7%	6.5%	72.0%	4.4%	2.3%	923
Facatativá	12.6%	7.4%	74.3%	4.1%	1.7%	964
Florencia	14.6%	11.3%	66.0%	6.1%	2.0%	1518
Floridablanca	11.0%	5.7%	77.3%	4.4%	1.6%	1777
Fusagasugá	12.0%	7.2%	73.0%	5.6%	2.1%	764
Girardot	17.1%	10.2%	62.0%	7.2%	3.5%	708
Girón	13.0%	6.5%	72.5%	6.8%	1.2%	1125
Guainía	13.9%	15.2%	57.8%	9.5%	3.5%	453
Guaviare	14.2%	10.6%	62.3%	10.0%	2.9%	698
Huila	14.1%	8.4%	68.6%	7.1%	1.8%	5892
Ibagué	15.0%	6.9%	71.2%	5.5%	1.5%	3696
Ipiales	13.4%	7.9%	72.7%	4.4%	1.5%	946
Itagüí	17.7%	10.8%	63.1%	6.6%	1.8%	1293
Jamundí	17.1%	11.3%	59.1%	8.6%	3.9%	778
La Guajira	12.9%	12.0%	62.6%	8.2%	4.4%	3448
Lorica	16.6%	12.5%	57.1%	10.5%	3.4%	1032
Magangué	17.4%	15.7%	49.7%	11.8%	5.4%	1157
Magdalena	14.3%	13.4%	58.8%	9.0%	4.3%	6946
Maicao	16.5%	15.8%	54.0%	9.8%	4.0%	1720
Malambo	10.6%	9.4%	71.4%	5.4%	3.2%	818
Manizales	14.4%	8.5%	69.4%	6.3%	1.5%	2010
Medellín	17.8%	9.8%	61.9%	7.0%	3.5%	13569
Meta	13.4%	9.9%	67.7%	7.2%	1.9%	4477
Montería	17.9%	13.1%	56.2%	9.6%	3.3%	3934
Mosquera	12.9%	5.1%	74.2%	5.8%	1.9%	993
Nariño	10.5%	7.5%	73.5%	5.2%	3.3%	6223
Neiva	16.9%	8.3%	67.5%	5.8%	1.5%	2784
Norte de Santander	13.1%	8.1%	71.2%	6.0%	1.7%	6458
Palmira	15.6%	8.0%	68.3%	6.0%	2.0%	2052
Pasto	12.2%	6.3%	74.3%	5.6%	1.6%	2530
Pereira	13.2%	7.5%	71.1%	5.0%	3.2%	2982
Piedecuesta	12.7%	7.4%	71.8%	5.4%	2.7%	996
Pitalito	13.7%	9.3%	68.1%	6.4%	2.6%	1194
Popayán	11.7%	6.7%	74.2%	4.8%	2.6%	2035

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Putumayo	12.7%	10.4%	66.6%	7.6%	2.8%	3086
Quibdó	14.8%	11.3%	59.6%	9.3%	4.9%	1033
Quindío	15.4%	9.3%	65.1%	7.1%	3.1%	1538
Riohacha	16.2%	12.4%	59.4%	8.6%	3.3%	2217
Rionegro	15.8%	7.3%	70.5%	5.1%	1.2%	764
Risaralda	13.5%	9.1%	66.9%	6.9%	3.6%	2033
Sabaneta	13.4%	7.3%	66.1%	6.8%	6.3%	395
Sahagún	15.2%	14.7%	59.0%	9.4%	1.7%	873
San Andrés	21.2%	15.5%	51.1%	10.0%	2.2%	401
Santa Marta	16.3%	10.6%	62.2%	7.8%	3.1%	4204
Santander	13.4%	8.1%	70.2%	6.4%	1.9%	6185
Sincelejo	16.8%	12.7%	60.7%	7.5%	2.2%	2353
Soacha	12.6%	6.9%	72.2%	6.5%	1.8%	3934
Sogamoso	14.2%	7.8%	71.9%	5.4%	0.7%	1046
Soledad	13.6%	8.9%	70.5%	5.1%	1.9%	3730
Sucre	15.9%	14.5%	55.0%	10.3%	4.2%	5959
Tolima	14.1%	11.5%	64.0%	8.1%	2.4%	6918
Tuluá	14.1%	8.1%	71.3%	4.9%	1.6%	1463
Tumaco	14.3%	13.4%	58.6%	8.0%	5.8%	2017
Tunja	11.9%	6.8%	75.5%	4.6%	1.2%	1403
Turbo	16.6%	15.4%	55.8%	9.3%	2.8%	1937
Uribia	15.7%	15.9%	51.9%	10.9%	5.6%	1575
Valle del Cauca	14.7%	9.1%	67.2%	6.3%	2.6%	5679
Valledupar	13.4%	9.8%	67.6%	6.5%	2.6%	3913
Vaupés	11.9%	16.7%	51.3%	14.7%	5.4%	353
Vichada	16.2%	12.4%	58.2%	10.2%	3.1%	777
Villavicencio	12.7%	8.3%	71.7%	5.6%	1.7%	3999
Yopal	14.7%	8.4%	68.1%	6.9%	2.0%	1532
Yumbo	16.1%	7.5%	68.2%	5.3%	2.9%	869
Zipaquirá	10.4%	5.9%	78.6%	4.2%	0.9%	963
Colombia	13.9%	9.4%	67.1%	6.8%	2.8%	356848

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

- **Pregunta 35.**



¿En cuál zona es más fácil atrapar un pez ?

A. En la zona 1, porque tiene más peces que
B. En la zona 2, porque tiene más peces que
C. En la zona 3, porque hay únicamente peces y no hay
D. En la zona 4, porque hay la misma cantidad de peces que

- **Estructura**

Competencia	Razonamiento
Componente	Aleatorio
Afirmación	Establecer conjeturas acerca de la posibilidad de ocurrencia de eventos.
Nivel de desempeño	Satisfactorio
Respuesta Correcta	B

• Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	12.1%	46.7%	19.0%	15.2%	7.0%	672
Antioquia	11.0%	59.7%	15.1%	10.8%	3.5%	20211
Apartadó	9.7%	59.9%	14.0%	12.0%	4.4%	1149
Arauca	10.0%	64.7%	14.0%	10.0%	1.3%	2390
Armenia	11.0%	62.6%	13.5%	9.9%	3.1%	1624
Atlántico	12.1%	53.5%	17.6%	11.1%	5.8%	4252
Barrancabermeja	10.4%	65.6%	12.7%	8.9%	2.4%	1947
Barranquilla	10.9%	64.5%	13.1%	8.9%	2.6%	8006
Bello	11.7%	63.4%	13.5%	8.2%	3.2%	3173
Bogotá, D.C.	11.5%	66.9%	11.5%	7.4%	2.7%	45991
Bolívar	12.4%	50.0%	17.4%	14.9%	5.3%	8606
Boyacá	10.1%	64.3%	14.6%	9.5%	1.5%	6337
Bucaramanga	10.6%	69.3%	11.7%	6.9%	1.4%	3695
Buenaventura	9.7%	59.3%	16.4%	11.2%	3.4%	3423
Buga	11.1%	64.2%	12.4%	8.4%	3.9%	687
Caldas	9.7%	65.8%	13.7%	8.7%	2.1%	4030
Cali	10.6%	67.0%	12.3%	7.1%	3.0%	13697
Caquetá	9.1%	63.8%	14.0%	9.7%	3.4%	2279
Cartagena	9.8%	60.7%	15.1%	10.2%	4.2%	7633
Cartago	13.2%	61.5%	13.2%	8.3%	3.9%	836
Casanare	9.6%	63.6%	14.9%	10.3%	1.6%	2496
Cauca	9.4%	61.0%	15.6%	10.4%	3.5%	9587
Cesar	11.2%	58.1%	15.4%	12.1%	3.1%	6409
Chocó	12.9%	52.5%	16.7%	13.8%	4.1%	3280
Chía	11.0%	67.0%	11.6%	8.5%	2.0%	1176
Ciénaga	11.8%	57.4%	12.2%	11.8%	6.8%	1037
Cundinamarca	10.7%	65.6%	13.3%	8.9%	1.5%	11700
Córdoba	11.7%	52.5%	18.0%	13.9%	3.9%	10335
Cúcuta	10.9%	66.0%	13.3%	8.3%	1.5%	5930
Dosquebradas	11.2%	65.1%	12.6%	8.3%	2.8%	1309
Duitama	9.7%	68.2%	15.0%	6.8%	0.3%	909
Envigado	9.2%	71.7%	10.3%	6.4%	2.4%	923
Facatativá	11.0%	65.8%	14.3%	8.0%	0.9%	964
Florencia	10.5%	61.3%	15.5%	10.0%	2.6%	1518
Floridablanca	8.9%	69.2%	13.1%	7.2%	1.6%	1777
Fusagasugá	10.7%	68.6%	12.4%	5.8%	2.5%	764
Girardot	13.4%	59.7%	15.3%	8.9%	2.7%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	9.6%	67.0%	14.5%	7.6%	1.2%	1125
Guainía	13.5%	55.6%	16.1%	10.6%	4.2%	453
Guaviare	10.5%	60.5%	13.9%	11.5%	3.7%	698
Huila	10.9%	61.3%	15.4%	10.6%	1.8%	5892
Ibagué	10.4%	68.3%	11.9%	7.8%	1.7%	3696
Ipiales	11.9%	64.3%	13.1%	8.9%	1.8%	946
Itagüí	11.0%	66.1%	13.4%	7.7%	1.9%	1293
Jamundí	13.1%	59.8%	12.3%	10.3%	4.5%	778
La Guajira	10.1%	57.3%	17.1%	11.0%	4.5%	3448
Lorica	10.9%	54.7%	17.7%	12.8%	3.8%	1032
Magangué	14.0%	50.3%	13.1%	17.3%	5.3%	1157
Magdalena	10.8%	53.2%	16.3%	14.8%	4.8%	6946
Maicao	12.1%	53.1%	18.3%	12.0%	4.5%	1720
Malambo	9.3%	65.8%	12.0%	9.8%	3.2%	818
Manizales	10.8%	65.7%	14.5%	7.2%	1.7%	2010
Medellín	11.9%	60.1%	14.4%	9.7%	3.9%	13569
Meta	10.9%	64.2%	13.6%	9.3%	2.0%	4477
Montería	12.3%	55.7%	16.2%	12.6%	3.2%	3934
Mosquera	11.5%	62.9%	14.1%	9.6%	1.9%	993
Nariño	9.4%	63.6%	15.4%	7.9%	3.8%	6223
Neiva	8.8%	66.2%	13.8%	9.5%	1.7%	2784
Norte de Santander	10.3%	64.8%	13.8%	9.4%	1.7%	6458
Palmira	11.5%	65.1%	12.7%	8.5%	2.3%	2052
Pasto	10.6%	63.9%	15.2%	8.8%	1.5%	2530
Pereira	9.6%	65.4%	12.8%	8.8%	3.5%	2982
Piedecuesta	10.1%	67.2%	12.2%	8.1%	2.3%	996
Pitalito	10.4%	63.2%	14.2%	9.4%	2.8%	1194
Popayán	9.9%	69.2%	10.9%	7.2%	2.8%	2035
Putumayo	11.1%	60.0%	15.4%	10.6%	2.9%	3086
Quibdó	12.5%	54.7%	15.7%	11.7%	5.4%	1033
Quindío	10.6%	64.6%	13.1%	8.6%	3.1%	1538
Riohacha	11.3%	56.4%	16.6%	11.5%	4.2%	2217
Rionegro	9.8%	68.2%	13.5%	7.2%	1.3%	764
Risaralda	10.2%	62.4%	14.5%	9.0%	4.0%	2033
Sabaneta	11.4%	62.8%	12.9%	5.6%	7.3%	395
Sahagún	11.2%	57.5%	16.3%	13.3%	1.7%	873
San Andrés	16.2%	53.9%	16.0%	11.0%	3.0%	401
Santa Marta	11.8%	61.1%	14.1%	9.7%	3.2%	4204
Santander	10.8%	63.0%	15.5%	8.8%	2.0%	6185

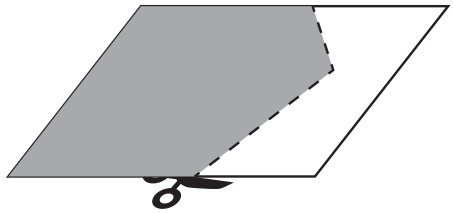
Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	11.3%	59.8%	15.1%	11.5%	2.3%	2353
Soacha	11.2%	65.6%	13.6%	7.7%	2.0%	3934
Sogamoso	8.3%	70.6%	12.3%	7.6%	1.1%	1046
Soledad	9.4%	67.2%	12.8%	8.2%	2.3%	3730
Sucre	11.4%	50.2%	17.8%	16.1%	4.5%	5959
Tolima	11.4%	59.9%	15.6%	10.5%	2.5%	6918
Tuluá	10.3%	67.7%	12.0%	8.3%	1.8%	1463
Tumaco	11.5%	50.0%	18.5%	13.3%	6.8%	2017
Tunja	10.7%	68.8%	11.8%	7.3%	1.4%	1403
Turbo	12.0%	50.3%	18.4%	16.2%	3.1%	1937
Uribia	15.9%	41.6%	19.2%	17.0%	6.3%	1575
Valle del Cauca	11.0%	61.9%	14.2%	10.2%	2.8%	5679
Valledupar	10.1%	63.6%	13.7%	9.7%	2.8%	3913
Vaupés	15.6%	38.8%	16.7%	21.8%	7.1%	353
Vichada	13.3%	52.0%	15.1%	17.2%	2.4%	777
Villavicencio	10.0%	67.3%	12.1%	8.7%	1.8%	3999
Yopal	10.7%	64.4%	12.3%	10.1%	2.5%	1532
Yumbo	11.3%	64.6%	11.6%	9.7%	2.9%	869
Zipaquirá	10.7%	69.6%	12.3%	6.1%	1.3%	963
Colombia	11.0%	61.9%	14.2%	9.9%	3.0%	356848

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

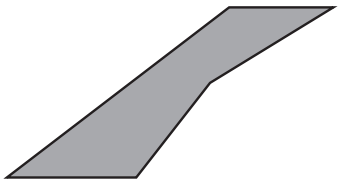
• Pregunta 36.

Daniel cortó una hoja de la siguiente manera:

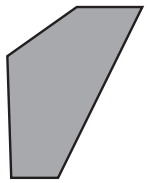


¿Cuál de las siguientes figuras corresponde a la parte que completa la hoja?

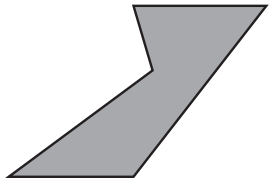
A.



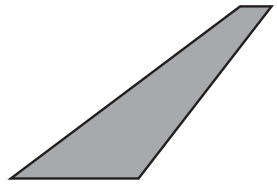
B.



C.



D.



• Estructura

Competencia	Resolución
Componente	Espacial - Métrico
Afirmación	Usar propiedades geométricas para solucionar problemas relativos a diseño y construcción de figuras planas.
Nivel de desempeño	Mínimo
Respuesta Correcta	C

- **Resultados a nivel nacional y de Entidad Territorial Certificada (ETC)**

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Amazonas	6.1%	8.0%	68.0%	10.3%	7.6%	672
Antioquia	5.9%	6.3%	79.2%	4.9%	3.7%	20211
Apartadó	6.6%	7.4%	74.2%	6.3%	5.6%	1149
Arauca	5.4%	5.5%	83.6%	3.9%	1.6%	2390
Armenia	4.7%	5.8%	82.4%	3.4%	3.8%	1624
Atlántico	6.3%	8.0%	72.9%	6.8%	5.9%	4252
Barrancabermeja	5.5%	5.0%	83.2%	3.7%	2.6%	1947
Barranquilla	4.7%	5.6%	82.7%	4.2%	2.8%	8006
Bello	5.5%	6.1%	81.1%	3.8%	3.5%	3173
Bogotá, D.C.	3.6%	3.9%	87.4%	2.2%	2.9%	45991
Bolívar	8.4%	9.2%	67.5%	9.0%	5.9%	8606
Boyacá	5.0%	5.1%	84.7%	3.8%	1.5%	6337
Bucaramanga	3.8%	3.8%	88.9%	2.0%	1.5%	3695
Buenaventura	5.4%	7.2%	78.2%	5.0%	4.1%	3423
Buga	4.9%	4.8%	82.0%	3.2%	5.1%	687
Caldas	4.8%	5.1%	84.3%	3.4%	2.3%	4030
Cali	4.4%	5.0%	84.4%	2.8%	3.5%	13697
Caquetá	4.5%	4.9%	82.2%	4.8%	3.7%	2279
Cartagena	5.5%	6.1%	78.8%	5.0%	4.7%	7633
Cartago	5.7%	6.2%	80.1%	3.8%	4.1%	836
Casanare	5.8%	5.7%	82.3%	4.0%	2.1%	2496
Cauca	4.9%	5.5%	81.2%	4.2%	4.3%	9587
Cesar	5.9%	6.5%	78.6%	5.8%	3.3%	6409
Chocó	7.6%	10.4%	69.3%	8.8%	3.8%	3280
Chía	3.6%	4.3%	88.6%	1.4%	2.1%	1176
Ciénaga	6.3%	7.5%	71.5%	6.0%	8.8%	1037
Cundinamarca	4.5%	5.0%	86.0%	2.7%	1.8%	11700
Córdoba	7.7%	8.6%	71.1%	8.1%	4.5%	10335
Cúcuta	4.5%	4.9%	85.8%	3.1%	1.7%	5930
Dosquebradas	3.6%	5.7%	84.5%	2.9%	3.3%	1309
Duitama	4.5%	3.7%	88.6%	2.9%	0.3%	909
Envigado	5.9%	3.6%	86.1%	1.8%	2.6%	923
Facatativá	3.6%	5.3%	87.7%	2.4%	1.0%	964
Florencia	5.2%	5.7%	83.5%	3.2%	2.4%	1518
Floridablanca	3.8%	4.2%	87.7%	2.6%	1.7%	1777
Fusagasugá	3.9%	4.2%	87.6%	2.5%	1.8%	764
Girardot	5.1%	7.2%	80.8%	4.1%	2.8%	708

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Girón	2.9%	4.4%	87.1%	4.3%	1.3%	1125
Guainía	9.3%	7.1%	70.4%	8.6%	4.6%	453
Guaviare	5.4%	5.2%	82.5%	3.6%	3.3%	698
Huila	5.0%	5.6%	83.7%	3.5%	2.2%	5892
Ibagué	4.4%	4.1%	86.9%	2.5%	2.1%	3696
Ipiales	4.0%	5.9%	85.0%	3.5%	1.6%	946
Itagüí	7.1%	4.8%	80.8%	5.1%	2.2%	1293
Jamundí	5.5%	7.5%	76.9%	5.4%	4.8%	778
La Guajira	7.2%	8.3%	72.3%	7.3%	4.9%	3448
Lorica	8.8%	7.9%	70.3%	8.4%	4.5%	1032
Magangué	7.8%	9.0%	68.4%	9.1%	5.8%	1157
Magdalena	7.4%	8.1%	72.1%	7.0%	5.5%	6946
Maicao	8.3%	9.5%	69.2%	8.0%	4.9%	1720
Malambo	5.6%	3.4%	81.1%	5.3%	4.6%	818
Manizales	4.8%	5.7%	85.1%	2.4%	2.0%	2010
Medellín	5.5%	6.5%	79.9%	3.9%	4.2%	13569
Meta	4.4%	5.9%	83.9%	3.6%	2.1%	4477
Montería	7.8%	8.0%	74.3%	6.0%	4.0%	3934
Mosquera	4.2%	5.1%	86.2%	2.4%	2.0%	993
Nariño	4.0%	4.8%	83.5%	3.4%	4.3%	6223
Neiva	5.2%	4.7%	84.8%	3.1%	2.2%	2784
Norte de Santander	4.1%	4.6%	86.0%	3.5%	1.8%	6458
Palmira	5.9%	4.7%	84.1%	3.1%	2.2%	2052
Pasto	4.3%	4.7%	86.4%	2.9%	1.7%	2530
Pereira	3.5%	4.5%	85.4%	2.8%	3.8%	2982
Piedecuesta	4.9%	4.5%	85.6%	2.6%	2.3%	996
Pitalito	5.9%	5.4%	83.4%	2.3%	2.9%	1194
Popayán	4.1%	2.9%	87.5%	2.6%	2.9%	2035
Putumayo	5.8%	7.1%	80.0%	4.4%	2.7%	3086
Quibdó	9.4%	5.7%	74.2%	5.4%	5.3%	1033
Quindío	5.2%	6.7%	80.8%	4.4%	2.9%	1538
Riohacha	6.2%	7.8%	75.9%	5.7%	4.4%	2217
Rionegro	6.0%	5.0%	84.6%	3.0%	1.4%	764
Risaralda	6.1%	5.0%	80.3%	4.7%	4.0%	2033
Sabaneta	5.3%	5.3%	80.3%	1.5%	7.6%	395
Sahagún	5.6%	7.0%	79.3%	6.2%	1.9%	873
San Andrés	8.0%	12.0%	69.3%	7.5%	3.2%	401
Santa Marta	5.7%	5.5%	81.4%	3.8%	3.6%	4204
Santander	4.8%	5.5%	83.4%	3.8%	2.4%	6185

Continúa en la siguiente página

ETC/País	A	B	C	D	Omisión y multimarca	N° estudiantes
Sincelejo	7.0%	7.2%	78.2%	5.4%	2.2%	2353
Soacha	4.0%	5.2%	86.0%	2.8%	2.0%	3934
Sogamoso	5.8%	5.1%	85.6%	2.3%	1.2%	1046
Soledad	5.1%	5.7%	82.9%	3.5%	2.9%	3730
Sucre	8.6%	9.0%	69.6%	7.8%	5.0%	5959
Tolima	5.3%	6.6%	80.2%	4.8%	3.1%	6918
Tuluá	5.3%	5.7%	82.8%	3.9%	2.4%	1463
Tumaco	7.9%	7.8%	68.2%	9.1%	7.0%	2017
Tunja	3.6%	4.5%	88.1%	2.1%	1.7%	1403
Turbo	9.6%	8.4%	71.9%	6.3%	3.8%	1937
Uribia	12.3%	13.3%	55.0%	13.9%	5.5%	1575
Valle del Cauca	4.7%	5.6%	82.8%	3.5%	3.3%	5679
Valledupar	5.4%	5.4%	81.6%	4.2%	3.3%	3913
Vaupés	12.2%	15.0%	51.3%	14.2%	7.4%	353
Vichada	6.7%	11.2%	69.8%	9.0%	3.3%	777
Villavicencio	4.2%	5.0%	85.9%	3.1%	1.9%	3999
Yopal	4.9%	5.2%	83.4%	3.7%	2.9%	1532
Yumbo	4.7%	3.8%	85.5%	2.9%	3.1%	869
Zipaquirá	4.4%	4.7%	88.2%	2.1%	0.7%	963
Colombia	5.3%	5.9%	81.2%	4.3%	3.3%	356848

*Es posible que los porcentajes mostrados no sumen exactamente 100 debido a aproximaciones decimales.

Carrera 7 n.° 32-12, Edificio San Martín, Torre Sur - Piso 32, Bogotá, D. C., Colombia • www.icfes.gov.co
Línea Local: (57+1) 484-1460 • PBX: (57+1) 484-1410 • Línea Nacional Gratuita: 018000 519535